# TOWN OF DELTON P.O. BOX 148 LAKE DELTON, WI 53940 (608) 253-4621 FAX (608) 253-3302 dkowalke@townofdelton.org

WELCOME TO OUR BUILDING APPLICATION AND INSPECTION PROGRAM.

THE MAJORITY OF INSPECTION QUESTIONS CAN BE ANSWERED BY READING THROUGH THE ENCLOSED INFORMATION.

DENNIS BUTTERIS IS THE TOWN OF DELTON BUILDING INSPECTOR. HE CAN BE REACHED AT (608) 617-1216; BY EMAIL AT <u>DBUTTERIS@GENERALENGINEERING.NET</u> OR THROUGH GENERAL ENGINEERING AT (608) 745-4070.

IF YOU HAVE ZONING QUESTIONS, YOU MAY CONTACT DEBORAH KOWALKE USING THE INFORMATION AT THE TOP OF THIS LETTER OR YOU MAY CONTACT THE ZONING ADMINISTRATOR ROBERT ROTH AT (608) 697-5857 OR BY EMAIL AT ROBERT@RPSPROFESSIONALSOLUTIONS.COM

#### TOWN OF DELTON P.O. BOX 148 LAKE DELTON, WI 53940 (608) 253-4621

BUILDING INSPECTOR: DENNIS BUTTERIS 608-617-1216

THE FOLLOWING IS BASIC INFORMATION THAT MAY BE HELPFUL IN COMPLETING YOUR BUILDING PERMIT APPLICATION. THE TOWN OF DELTON HAS COMPLETE ORDINANCES ON BUILDING CODES AND HAS ITS OWN ZONING EFFECTIVE APRIL 1982.

SETBACKS: LEFT, RIGHT AND REAR SET-BACKS DIFFER ACCORDING TO HOW THE PROPERTY IS ZONED (SINGLE FAMILY – 10' FROM LOT LINES AND 20' FROM THE OUTSIDE RIGHT-OF-WAY LINE ON THE ROAD. THE TOWN HAS A 66' RIGHT-OF-WAY). FOR ALL OTHER ZONING, PLEASE CONTACT THE TOWN OF DELTON OFFICE FOR THE SETBACKS. IT IS YOUR RESPONSIBILITY TO BE AWARE OF WHERE YOUR PROPERTY LINES AND OUTSIDE RIGHT-OF-WAY LINES ARE AND TO BUILD ACCORDINGLY. SET-BACKS MUST BE COMPLETED ON THE BUILDING PERMIT FORM AND ALSO NOTED ON THE SITE PLAN.

IN ORDER FOR THE BUILDING INSPECTOR TO ISSUE A PERMIT YOU MUST FIRST OBTAIN A SEPTIC AND WELL PERMIT THROUGH YOUR PLUMBER AT THE PLANNING AND ZONING OFFICE IN THE SAUK COUNTY COURTHOUSE IN BARABOO. ONCE HE RECEIVES THE LAND USE PERMIT FROM PLANNING AND ZONING HE CAN ISSUE YOU A PERMIT, IF EVERYTHING IS IN ORDER ON YOUR APPLICATION.

THE BUILDING INSPECTOR ALSO WILL NEED ONE COPY OF YOUR BUILDING PLANS AND A COMPLETED ENERGY WORKSHEET. A SITE PLAN FOR THE PROPOSED PROJECT MUST ALSO BE FILED WITH YOUR APPLICATION.

YOUR CONTRACTOR ALSO NEEDS TO BE STATE CERTIFIED AND A COPY OF HIS CERTIFICATION CARD MUST BE ATTACHED TO THE APPLICATION.

YOU WILL ALSO NEED A DRIVEWAY PERMIT FOR YOUR DRIVEWAY. THE DRIVEWAY MUST ALSO BE 10' FROM THE LOT LINE. THE TOWN WILL PUT IN THE DRIVEWAY, FROM THE ROAD JUST ONTO YOUR PROPERTY, AND A CULVERT IF ONE IS NEEDED. YOU WILL BE BILLED ONLY FOR THE CULVERT. ONLY ONE DRIVEWAY PER LOT IS ALLOWED. CIRCULAR DRIVES MUST CIRCLE ON YOUR PROPERTY AND COME BACK OUT ON THE SAME DRIVE WHERE IT WENT IN. TWO DRIVEWAYS TO ACCOMMODATE A CIRCULAR DRIVE ARE NOT PERMITTED.

SPECIAL INFORMATION FOR CUL-DE-SACS: ALL MAILBOXES MUST BE PLACED TOGETHER AT THE BEGINNING OF THE CUL-DE-SAC. IN MOST CASES THERE IS ALREADY A GROUP THERE. MAILBOXES ON CUL-DE-SACS CANNOT BE PLACED ON YOUR LOT, THEY MUST BE WITH THE OTHERS.

IF YOU WOULD LIKE CLARIFICATION ON ANY OF THE ABOVE INFORMATION, NEED A COMPLETE COPY OF AN ORDINANCE, OR HAVE ANY OTHER QUESTIONS, PLEASE CALL THE TOWN OF DELTON OFFICE AT THE ABOVE NUMBER ON MONDAY, WEDNESDAY OR FRIDAY AFTERNOONS.

We are excited to announce the availability of our new Online Permit Application. This new feature will allow contractors and homeowners to submit for new permits online any time day or night. As an early adopter, we would like to provide you a preview and make this available to you now while we work to get this link on the GEC website.

This portal is for electronic submission of your building permit application and related documents. Prior to submitting, gather the following as needed for your specific permit:

- Parcel number
- Zoning permit number
- Sanitary permit number
- Electronic copy of all plans
- Contractor info including license # and expiration date

Follow these steps for electronic submission of your building permit application:

1. Click on this link to start your application: <a href="https://gec.soliant.cloud/fmi/webd/GEC">https://gec.soliant.cloud/fmi/webd/GEC</a> BuildingPermitApplication

- 2. Upload plans and other required documentation as part of this process
- 3. "Submit" your application for review you will receive an email once submitted

Once your application is submitted, the following will happen:

- Inspector will review and request more information or accept for further processing
- 2. Once accepted, inspector will complete detailed review, follow-up with remaining questions with the goal of approving
- 3. Once approved, you will be notified your permit is ready and any remaining payment needed

As a reminder, no work-should begin until you have an approved permit. Please direct any questions to your local building inspector.

If you have any questions about this new capability, please email us at <a href="mailto:inspection@generalengineering.net">inspection@generalengineering.net</a>. For general permit or inspection questions, you can email or call me. Please allow 5-10 business days for the permit to be processed.

Thank you,

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

101.65(1r) 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 s. 101.654(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.
- □ I vouch that I am or will be 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 above.

#### 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 may incur. 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 Wore 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.

#### 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 DHS Ch. 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.

#### **Contractor Credential Requirements**

All contractors shall possess an appropriate contractor credential issued by the Wisconsin Division of Industry Services. Contractors are also required to only subcontract with contractors that hold the appropriate contractor credential.

By signing this document, owner confirms that he/she has read and understands all of the above state	ed
information.	

Owner's Signature:	Date:
Owner's Printed Name:	**

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#### INSTRUCTIONS

The owner, builder or agents shall complete the application form down through the Signature of Applicant block and submit it and building plans and specifications to the enforcing jurisdiction, which is usually your municipality or county. Permit application data is used for statewide statistical gathering on new one- and two-family dwellings, as well as for local code administration. Please type or use ink and press firmly with multi-ply form.

#### PERMIT REQUESTED

- · Check off type of Permit Requested, such as structural, HVAC, Electrical or Plumbing.
- Fill in owner's current Mailing Address and Telephone Number.
- If the project will disturb one acre or more of soil, the project is subject to the additional erosion control and stormwater provisions of ch. NR 151 of the WI Administrative Code. Checking this box will satisfy the related notification requirements of ch. NR 216.
- Fill in Contractor and Contractor Qualifier Information. Per s. 101.654 (1) WI Stats., an individual taking out an erosion control or construction permit shall enter his or her dwelling contractor certificate number, and name and certificate number of the dwelling contractor qualifier employed by the contactor, unless they reside or will reside in the dwelling. Per s. 101.63 (7) Wis. Stats., the master plumber name and license number must be entered before issuing a plumbing permit.

#### PROJECT LOCATION

- Fill in Building Address (number and street or sufficient information so that the building inspector can locate the site.
- Local zoning, land use and flood plain requirements must be satisfied before a building permit can be issued. County approval may be necessary.
- Fill in Zoning District, lot area and required building setbacks.

PROJECT DATA - Fill in all numbered project data blocks (1-14) with the required information. All data blocks must be filled in, including the following:

2. Area (involved in project):

Basements - include unfinished area only

Living area - include any finished area including finished areas in basements

Two-family dwellings - include separate and total combined areas

- 3. Occupancy Check only "Single-Family" or "Two-Family" if that is what is being worked on. In other words, do not check either of these two blocks if only a new detached garage is being built, even if it serves a one or two family dwelling. Instead, check "Garage" and number of stalls. If the project is a community based residential facility serving 3 to 8 residents, it is considered a single-family dwelling.
- 9. HVAC Equipment Check only the major source of heat, plus central air conditioning if present. Only check "Radiant Baseboard" if there is no central source of heat.
- 10. Sewage Indicate if the dwelling will be served by municipal sewer or privately owned treatment system. If a private system is used, include the Sanitary Permit number. Note: A building permit cannot be issued for a new dwelling that utilizes a privately owned wastewater treatment system until a sanitary permit has been issued. This applies to any new or existing private onsite wastewater treatment system that will be used by the dwelling.
- 13. Heat Loss Provide heat loss summation data (BTUs/HR) derived from the ResCheck report or the "Heating System Sizing Summary Calculator" available on the Division's website: <a href="http://dsps.wi.gov/Programs/Industry-Services/Industry-Services-Programs/One-and-Two-Family-UDC">http://dsps.wi.gov/Programs/Industry-Services/Industry-Services/Industry-Services-Programs/One-and-Two-Family-UDC</a>.
- 14. Estimated Cost Include the total cost of construction, including materials and market rate labor, but not the cost of land or landscaping.

SIGNATURE – The owner or the contractor's authorized agent shall sign and date this application form. If you do not possess the Dwelling Contractor certification, then you will need to check the owner-occupancy statement for any erosion control or construction permits.

CONDITIONS OF APPROVAL - The authority having jurisdiction uses this section to state any conditions that must be complied with pursuant to issuing the building permit.

ISSUING JURISDICTION: This must be completed by the authority having jurisdiction.

- Check off Jurisdiction Status, such as town, village, city, county or state and fill in Municipality Name
- Fill in State Inspection Agency number only if working under state inspection jurisdiction.
- Fill in Municipality Number of Dwelling Location
- Check off type of Permit Issued, such as construction, HVAC, electrical or plumbing.
- Fill in Wisconsin Uniform Permit Seal Number, if project is a new one- or two-family dwelling.
- Fill in Name and Inspector Certification Number of person reviewing building plans and date building permit issued.

SITE PLAN SKETCH (SCALE: ONE SQUARE = \_\_\_\_\_FEET)

SITE PLAN SKETCH (SCALE: ONE SQUARE = \_\_\_\_\_FEET)



#### IMPORTANT: NOTICE OF REQUIRED INSPECTIONS OF 1 & 2 FAMILY HOMES

PLEASE HAVE THE FOLLOWING ITEMS READY WHEN CONTACTING YOUR INSPECTOR:
PERMIT NUMBER - SITE ADDRESS - INSPECTION REQUEST

Per Wisconsin Administrative Code, SPS 320.10(2)(b)1: The applicant or an authorized representative shall request inspections from the municipality or authorized UDC inspection agency administering and enforcing this code.

Please contact your Building Inspector for the following REQURED INSPECTIONS as they apply to your project with permit number . Remember it is the responsibility of the homeowner, contractor, or other authorized representative to request inspections.

	EROSION CONTROL — Erosion control will be inspected concurrently with all other inspections. Prior to any land disturbing construction activity, sediment control practices shall be employed in accordance with the approved plan. The sediment control measures shall be maintained throughout your project and until the disturbed group base have been stabilized by a prescript per stabilized by a pre
	disturbed areas have been stabilized by a perennial vegetative cover.  FOOTINGS — Inspection of footings shall be required after forms are in place and prior to pouring concrete. The excavation, soil conditions, form placement, and compliant installation of a drain tile system, if applicable, shall be part of this inspection.
	FOUNDATION REINFORCEMENT – If required for Code compliance, the placement of reinforcement, such as rebar mats, shall be inspected prior to the placement of permanent foundation material, such as concrete.
Ц	FOUNDATION – The foundation shall be inspected after completion and prior to back-filling. The drain tile system (including aggregate coverage), damp-proofing, placement of the foundation on the footing, exterior insulation, and anchor-bolt placement are included in this inspection.
	ELECTRIC SERVICE (Temporary) – Inspecting for ground rods, secure installation, equipment condition, and utility compliance.
	ELECTRIC SERVICE (Permanent) — When calling for an electric service (permanent or temporary) inspection, provide the inspector with the utility company name. The utility company will not energize your service without this inspection.
	BASEMENT FLOOR AREA - These inspections shall include the following:
	<ul> <li>Any UNDERFLOOR PLUMBING, ELECTRICAL or HVAC</li> </ul>
	<ul> <li>INTERIOR DRAIN TILE SYSTEM, including base course and sump pit</li> </ul>
	STRUCTURAL BASE COURSE FOR THE FLOOR, if required
	• UNDERFLOOR VAPOR RETARDER
	ROUGH CONSTRUCTION – Construction plans with wall-bracing details and truss plans shall be on-site for review by your inspector.
	ROUGH PLUMBING - Completed plumbing piping systems with TEST ON will be inspected at this time.
	ROUGH ELECTRICAL - Prior to concealment.
	ROUGH HEATING, VENTILATING, and AIR-CONDITIONING - Prior to concealment.
	*NOTE* All ROUGHS shall be readily visible and inspected prior to the installation of insulation or any other form of concealment, including, but not limited to, drywall, paneling, ceiling tiles, etc.
	INSULATION – An inspection of the insulation, vapor retarders, and air sealing shall be made after they are installed, but prior to being concealed by drywall or other covering.
	FINAL INSPECTION – No dwelling shall be occupied nor shall occupancy be granted prior to a final inspection being completed that finds no critical violations of the Code that could reasonably be expected to affect the health and safety of a person using the dwelling. NOTE: Moving and storing furniture and other household items in the house prior to final inspection is prohibited.
	FINAL NOTE: Your inspector will make every effort to complete inspections in the timeframe requested. Be aware, however, that the inspector has until the end of the second business day following the day of the request to satisfy a request for inspection. Also be aware that construction may not proceed beyond the point of inspection until the inspection has been completed. With that in mind, you are encouraged to contact your inspector and request your inspection several days prior to the desired day of your inspection to ensure they can meet your request. Also note that we have the ability to do remote video inspections.

Permi	issue check list
Name_	
Date r	eceived
Addre	ss
	ipality
0	Zoning from the County, City, Village or Town with a copy of the zoning permit if applicable
0	Site plan, showing all setbacks from lot lines and buildings if required: where we do the zoning.
0	Copy of the Driveway permit if applicable (towns)
0	Copy of the sanitary permit or reconnection permit if applicable (county)
0	Fully completed application on the State of Wisconsin UDC form, GEC - form for
	everything but a new home: including the owner's information, all contractors
	information with the license numbers and expirations dates
0	Erosion control plan showing tracking pad and control measures
0	Energy work sheets, both the 2009 IECC and 2009 res-checks, that sizes furnace
0	One set of plans
0	Wall cross section
0	Brace walls and work sheet
0	Municipal fees: (sewer & water, driveway, bonds, park, occupancy, deposits, etc.)
Call lo	g, time & date reason
_	
Notes	
-	
-	

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

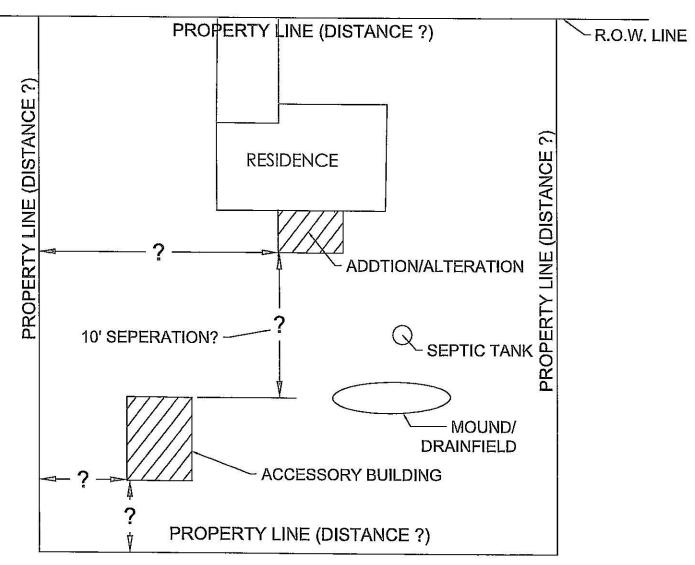
zoning permit as required by your local municipality or county before a building permit can be issued; a copy of these permits will need to be submitted to the building inspector prior to a building permit being issued.
Complete the latest version (R.6/10) of the Wisconsin Uniform Building Permit Application (attached) and return to the building inspector.
Submit an <b>Erosion Control Plan</b> 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 <b>Energy Calculations</b> to the building inspector; you may use the 2009 IECC to calculate this number. This software can be downloaded for free at <a href="https://www.energycodes.gov">www.energycodes.gov</a> . 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:
<ul> <li>The size and location of all rooms, doors, windows, structural features, exit passageways and stairs.</li> <li>The use of each room.</li> <li>The location of plumbing fixtures, chimneys, heating and cooling appliances and a</li> </ul>
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 Waterials <u>MUST</u> be Submitted PRIOR to the Issuance of a Building Permit

#### SAMPLE SITE PLAN

Show location of all lot lines and their dimensions. Show location and dimensions of all proposed buildings to be served by septic systems, show the location and dimensions of both the primary and alternate drainfield areas. For alterations or additions to existing buildings served by a septic system, show location of drainfield or if the location is not know, show the location of the vent pipe. Show scale used and the north location.

#### Center of Right of Way (Not Center of Pavement)





SCALE?

## 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.

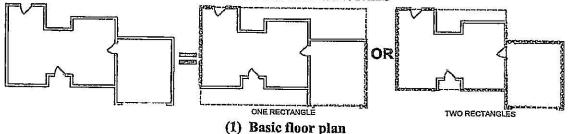
#### Major Assumptions/Defaults:

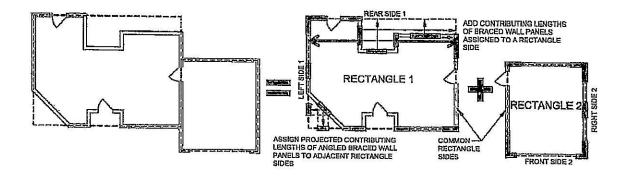
- Interior side of exterior walls are sheathed with 1/2" gypsum board
- 10' wall heights
- Wind Exposure category B
- For the intermittent bracing method roof eave (top of wall) to ridge height is 10'

Starting with the topmost floor level ...

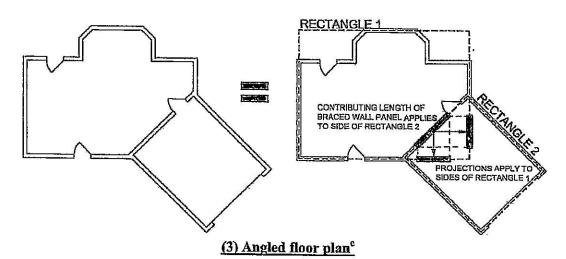
STEP 1: Define the rectangle sides by circumscribing the outermost extents of the building at each floor level with a rectangle. The maximum length of any side of the rectangle is 75' for intermittent bracing and 80' for continuously sheathed bracing. For either method the maximum length to width ratio 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>





#### (2) Angled-building-side pland



<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.

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.

#### Table 321.25-G BRACING METHODS<sup>2,f</sup>

BRACING METHODS <sup>2,1</sup>								
	Minimum	Maximum	Minimum	Connection Criteria				
Material	Brace Material Thickness or Size	Wall Panel Width Height <sup>b</sup> or Brace Angle		Minimum Fasteners	Maximum Spacing			
		Intermittent	Bracing Methods	l <del></del>	<u> </u>			
LIB° 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	3/4" (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	½" 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)	½" for maximum 24" o.c. stud spacing	10°	96"	5d cooler nails, or #6 screws	7" edges, 7" field (including top and bottom plates)			
OG MIZOTO	Cox	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			

CS-SFB <sup>d</sup> Continuous sheathed SFB	7/16" for maximum 24" o.c. stud spacing ½" for maximum 16" o.c. stud spacing			Same as SFB	Same as SFB
	7	Narrow 1	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

The interior side of all exterior walls shall be sheathed with minimum 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.

## 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	≤25	≤50	≤75	
Roof and ceiling only	合自自	1 <sup>i</sup>	2	3
One floor, roof and ceiling	自自	2	4	6

<sup>&</sup>lt;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–I or Table 321.25–J.

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

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.

Two floors, roof and ceiling		3	6	9
	Maria de la companione	At 1984		

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

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 inlaud 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.

"Where minimum 1/2-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.

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

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 1,5,5,4,6,5,5,h

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

<sup>&</sup>lt;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.

Height (feet)		Length of Perpendicular Side (feet)								
			10	20	30	40	50	60	70	80
	Roof and ceiling only	合自自	2.0 <sup>i</sup>	3.5 1	5.0	6.0	7.5	9.0	10.5	12.0
10	One floor, roof and ceiling	自自	3.5 <sup>i</sup>	6.5	9.0	12.0	14.5	17.0	19.8	22,6
	Two floors, roof and ceiling		5.0	9.5	13.5	17.5	21.5	25.5	29.2	33.4
15	Roof and ceiling only	自自合	2.6 <sup>i</sup>	4.6	6.5	7.8	9.8	11.7	13.7	15.7
	One floor, roof and ceiling	自自	4.0	7.5	10.4	13.8	16.7	19.6	22.9	26.2
	Two floors, roof and ceiling	自	5.5	10.5	14.9	19.3	23.7	27.5	32.1	36.7
	Roof and ceiling only	合自自	2.9 <sup>1</sup>	5.2	7.3	8.8	11.1	13.2	15.4	17.6
20	One floor, roof and ceiling	自自	4.5	8.5	11.8	15.6	18.9	22.1	25.8	29.5
	Two floors, roof and ceiling	<del>-</del>	6.2	11.9	16.8	21.8	27.3	31.1	36.3	41.5

<sup>&</sup>quot;Interpolation is permitted. Extrapolation to buildings larger than addressed in this table is prohibited,

<sup>&</sup>lt;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.

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.

dWhere minimum ½-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.

Adjustments in footnotes b to d apply cumulatively.

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>&</sup>lt;sup>8</sup>Continuous sheathing shall be applied to all surfaces of the wall, including areas between brace panels and above and below wall openings.

<sup>&</sup>lt;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.

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 ½" 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.

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

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		

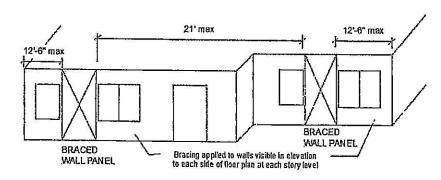
<sup>&</sup>quot;Sheathing shall extend from the top of the top plate to the bottom of the bottom plate and may be multiple sheets. All joints shall be blocked.

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.

bInterpolation is permitted.

#### FIGURE 321.25-C LOCATION OF BRACED WALL PANELS ALONG A BUILDING SIDE®



<sup>&</sup>quot;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)						
6'8"	32"	30"	30"	33"	36"	
8′	48"	41"	38"	37"	36"	
9,		54"	46"	43.5"	41"	
10'			60"	54"	48"	
1,2'					72"	
INTERMITTENT <sup>3</sup>	36″ <sup>4</sup>	36″ <sup>4</sup>	48"	48"	48"	

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

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

<sup>&</sup>lt;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.

	ilding plan/rectangles ch	an interest	

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 t	o Ridge Ht. = _	Max. Ope	ning Ht. =	Wind Exp. =		
Walls Supporting:	DWB, WSP PCP) and # Table 321.2 Min. panel v	Intermittent method (LIB, DWB, WSP, SFB, GB, PCP) and # of panels per Table 321.25-I Min. panel width (Table 321.25-G) =		Continuous method (CS-WSP, CS-SFB) and total length required per Table 321.25-J Min. panel width (Table 321.25-H) =		PF Method (see Figure 321.25-A). Indicate number of PF panels 16-24" wide provided. Min. PF width (Fig. 321.25-A) =	
	Long side	Short side	Long side	Short side	Long side	Short side	
Roof and ceiling only							
One floor, roof and ceiling			1	1	┪		
Two floors, roof and ceiling	76						

Rectangle: Wall Ht. =	Eave t	o Ridge Ht. =	Max. One	ening Ht. =	Wind Exp. =	
Walls Supporting:  Intermittent method (I DWB, WSP, SFB, GE PCP) and # of panels panels 321,25-1  Min. panel width (Table 321,25-G) =		P, SFB, GB, of panels per 5-1 width (Table			PF Method (see Figure 321.25-A). Indicate number of PF panels 16-24" wide provided. Min. PF width (Fig. 321.25-A) =	
	Long side	Short side	Long side	Short Side	Long side	Short side
Roof and ceiling only	MC 9700 EX	**				
One floor, roof and ceiling		Wes		· · · · · ·		
Two floors, roof and ceiling						

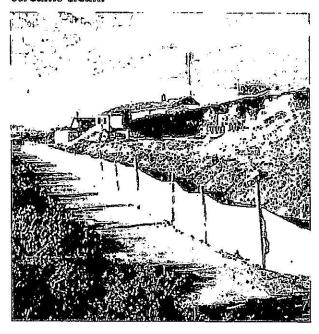
PF Method: For Intermittent bracing, per Table 321.25-I footnote 'h', cach PF panel (16-24" wide per Figure 321.25-A) counts as ½ of a braced wall panel when determining compliance with Table 321.25-I. For Continuously Sheathed bracing, the actual length of each PF panel (16-24" wide per Figure 321.25-A) 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.



## Erosion Control for Home Builders

By controlling erosion, home builders help keep our lakes and streams cleam. 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:



#### Taxes

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

#### Poor fishing

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.

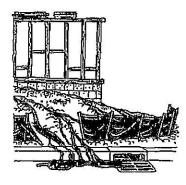
If you need help developing an erosion control plan or training your staff, contact your local building inspection, zoning or erosion control office.

#### 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 fence, 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;
- Stone/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 St., Madison, WI 53715, 608/262-3346 (toll-free 877-947-7827) or Dept. of Commerce, P.O. Box 2509, Madison, WI 53701-2509, 608/267-4405.



A poorly installed silt fence will not prevent soil 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.

#### Soil 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 Chapters Comm 20 & 21 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.
- 3. Submit this plan at the time of building permit application.

PROJECT LOCATION			Discourse to the same of
BUILDER			Please indicate north by completing the arrow.
WORKSHEET COMPLETED BY			
	SITE DIAGRAM	Scale: 1 inch =feet	
			<del>[</del>
			EROSION CONTROL PLAN LEGEND
			PROPERTY
			EXISTING DRAINAGE
			TD TEMPORARY DIVERSION
			FINISHED DRAINAGE
			LIMITS OF GRADING
			SILT FENCE
			oo STRAW BALES
			GRAVEL
			1 VEGETATION SPECIFICATION
			TREE PRESERVATION
			STOCKPILED SOIL

## EROSION CONTROL PLAN CHECKLIST

Check (1) appropriate boxes below, and complete the site diagram

COMPLET	NOT APP	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.
		<b>Erosion Control Practices</b>
		Location of temporary soil storage piles.
		Note: Soil storage piles should be placed behind a sediment fence, a 10 foot wide 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.
		Note: Unstabilized drainageways, ditches, diversions, and inlets should be protected 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.

#### NOT APPLICABLE COMPLETED Indicate management strategy by checking ( $\checkmark$ ) the appropriate box. Management Strategies Temporary stabilization of disturbed areas. Note: It is recommended that disturbed areas and soil piles left inactive for extended periods of time be stabilized by seeding (between April 1 and September 15), or by other cover, such as tarping or mulching. Permanent stabilization of site by re-vegetation or other means as soon as possible (lawn establishment). 0 Indicate re-vegetation method: ☐ Seed ☐ Sod ☐ Other \_ Expected date of permanent re-vegetation: \_ 0 Re-vegetation responsibility of: 🔲 Builder 🔲 Owner/Buyer Is temporary seeding or mulching planned if site is not seeded by o Sept. 15 or sodded by Nov. 15? ☐ Yes ☐ No $\Box$ Use of downspout and/or sump pump outlet extensions. It is recommended that flow from downspouts and sump pump outlets be routed through plastic drainage pipe to stable areas such as established sod or pavement. Trapping sediment during de-watering operations. Sediment-laden discharge water from pumping operations should be ponded behind a sediment barrier until most of the sediment settles out. Proper disposal of building material waste so that pollutants and debris are not carried off-site by wind or water. Maintenance of erosion control practices. Sediment will be removed from behind sediment fences and barriers before it reaches a depth that is equal to half the height of the barrier. Breaks and gaps in sediment fences and barriers will be repaired immeo diately. Decomposing straw bales will be replaced (typical bale life is three months). All sediment that moves off-site due to construction activity will be ٥ cleaned up before the end of the same workday.

- All sediment that moves off-site due to storm events will be cleaned up O before the end of the next workday.
- 0 Access drives will be maintained throughout construction.
- All installed erosion control practices will be maintained until the 0 disturbed areas they protect are stabilized.

## **EROSION CONTROL REGULATIONS**

Erosion control and stormwater regulations can be complex. Local, state and, in some cases, federal regulations may apply. Before construction make sure you have the appropriate permits.

#### **LOCAL ORDINANCES**

Check with your county, city, village, or town for any local erosion control ordinances including shoreland zoning requirements. Except for new 1- & 2-family dwellings, local ordinances may be more strict than state regulations. They may also require erosion control on construction projects not affected by state or federal regulations.

#### UNIFORM DWELLING CODE (DEPT. OF COMMERCE)

#### **CONTROLS REQUIRED**

- Silt fences, straw bales, or other approved perimeter measures along downslope sides and side slopes.
- Access drive.
- Straw bales, filter fabric fences or other barriers to protect on-site sewer inlets.
- Additional controls if needed for steep slopes or other special conditions.

#### FOR MORE INFORMATION, CONTACT:

- Local building inspector
- Department of Commerce, Safety and Buildings Division, P.O. Box 7970, Madison, Wis. 53707-7970, (608) 267-5113.

#### STORMWATER PERMIT (DEPT. OF NATURAL RESOURCES)

#### CONTROLS REQUIRED

- Erosion control measures specified in the Wisconsin Construction Site Best Management Practice Handbook.
- Measures to control storm water after construction.

#### FOR MORE INFORMATION, CONTACT

 Department of Natural Resources, Storm Water Permits, P.O. 7921, Madison, WI 53707-7921, (608) 267-7694.

For more assistance on plan preparation, refer to the Wisconsin Uniform Dwelling Code, the DNR Wisconsin Construction Site Best Management Handbook, and UW–Extension publication Erosion Control for Home Builders. The Wisconsin Uniform Dwelling Code and the Wisconsin Construction Site Best Management Handbook are available through the State of Wisconsin Document Sales, (608) 266-3358.

Erosion Control for Home Builders (GWQ001) can be ordered through Extension Publications, (608) 262-3346 or the Department of Commerce, (608) 267-4405. A PDF version of Erosion Control for Home Builders (GWQ001) and Standard Erosion Control Plan are also available at http://clean-water.uwex.edu/pubs/sheets

This publication is available from county UW-Extension offices or from Extension Publications, 45 N. Charter St., Madison, WI 53715. (608) 262-3346 or toll-free (877) 947-7827. A publication of the University of Wisconsin–Extension in cooperation with the Wisconsin Department of Natural Resources and the Wisconsin Department of Commerce.





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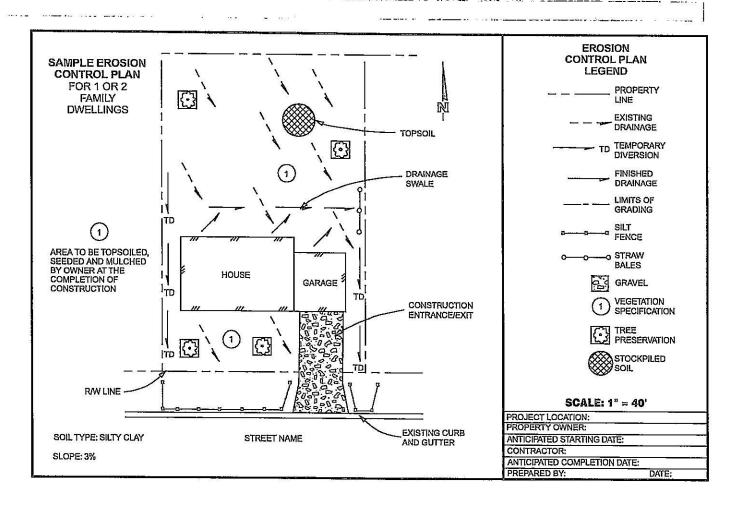
GWQ001A Standard Erosion Control Plan for 1 & 2 Family Dwelling Construction Sites

**DNR WT-458-96** 

R-03-02-2M-10-S

Editing and design by the Environmental Resources Center, University of Wisconsin-Extension.





#### 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

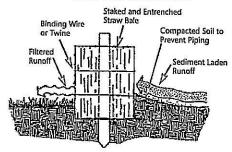
	Percent by Weight					
Grass	Sunny Site	Shady Site				
Kentucky bluegrass	65%	15%				
Fine fescue	20%	70%				
Perennial ryegrass	15%	15%				
Seeding ra (lb./1000 sq. fi		4-5				

Source: R.C. Newman, Lawn Establishment,

UW-Extension, 1988.

#### Straw Bale Fences

#### Cross Section of Straw Bale Installation



rce: Michigan Soil Erosion and Sedimentation Control Guidebook, 1975.

#### How to Install a Straw Bale Fence

How to Install a Silt Fence



1. Excavate a 4" deep trench.



2. Place bales in trench with bindings around sides away from the ground. Leave no gaps between bales.



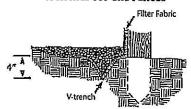
3. Anchor bales using two steel rebars or 2" x 2" wood stakes per bale. Drive stakes into the ground at least 8".

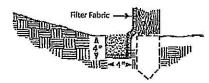


4. Backfill and compact the excavated soil.

#### Silt Fences

#### Cross Sections of Trenches for Silt Fences



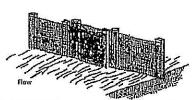


Sources: North Carolina Erosion and Sediment Control Planning and Design Manual, 1988.

1. Excavate a 4" x 4" trench along the contour.



2. Stake the silt fence on downslope side of trench. Extended 8" of fabric into the trench.



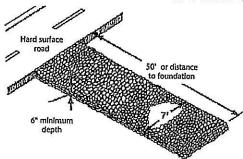
When joints are necessary, overlap ends for the distance between two stokes.



4. Backfill and compact the excavated soil.

#### Access Drive

#### How to Install an Access Drive



- 1. Install as soon as possible after start of grading.
- 2. Use two-to-three-inch aggregate stone.
- 3. Drive must be at least seven feet wide and 50 feet long or the distance to the foundation, whichever is less.
- 4. Replace as needed to maintain six-inch depth.

This publication is available from county UW-Extension offices or from Extension Publications, 630 W. Mifflin St., Madison, WI 53703. (608) 262-3346.

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**GWQ001 Erosion Control for Home Builders DNR WT-457-96** 

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