Wisconsin Division of Safety and Buildings Wisconsin Stats. 101.63, 101.73	**WISCONSIN UNIFORM BUILDING PERMIT APPLICATION** **Instructions on back of second ply.** The information you provide may be used by other government agency programs [(Privacy Law, s. 15.04 (1)(m)]	Application No. Parcel No.

PERMIT REQUESTED ☐ Constr. ☐ HVAC ☐ Electric ☐ Plumbing ☐ Erosion Control Other:

Owner's Name	Mailing Address		Tel.
Contractor's Name: ☐Con ☐Elec ☐HVAC ☐Plbg	Lic/Cert#	Mailing Address	Tel. FAX#
Contractor's Name: ☐Con ☐Elec ☐HVAC ☐Plbg	Lic/Cert#	Mailing Address	Tel. FAX#
Contractor's Name: ☐Con ☐Elec ☐HVAC ☐Plbg	Lic/Cert#	Mailing Address	Tel. FAX#
Contractor's Name: ☐Con ☐Elec ☐HVAC ☐Plbg	Lic/Cert#	Mailing Address	Tel. FAX#

PROJECT LOCATION	Lot area Sq. ft.	_____ 1/4, _____ 1/4, of Section , T N, R E (or) W

Building Address	Subdivision Name	Lot No.	Block No.

Zoning District(s)	Zoning Permit No.	**Setbacks:**	Front ft.	Rear ft.	Left ft.	Right ft.

1. PROJECT
☐ New ☐ Repair
☐ Alteration ☐ Raze
☐ Addition ☐ Move
☐ Other:

2. AREA INVOLVED
Unfin. Bsmt _____Sq Ft
Living Area _____Sq Ft
Garage _____Sq Ft
Deck _____Sq Ft.

3. OCCUPANCY
☐ Single Family
☐ Two Family
☐ Garage
☐ Other:

4. CONST. TYPE
☐ Site-Built
☐ Mfd: ☐ WI UDC ☐ U.S. HUD

5. STORIES
☐ 1-Story
☐ 2-Story
☐ Other:
☐ Plus Basement

6. ELECTRICAL
Entrance Panel Amps: _____
☐ Underground
☐ Overhead

7. FOUNDATION
☐ Concrete
☐ Masonry
☐ Treated Wood
☐ Other:

8. USE
☐ Seasonal
☐ Permanent
☐ Other:

9. HVAC EQUIPMENT
☐ Forced Air Furnace
☐ Radiant Basebd/ Panel
☐ Heat Pump
☐ Boiler
☐ Central Air Cond.
☐ Other:

10. SEWER
☐ Municipal
☐ Sanitary Permit No.:

11. WATER
☐ Municipal Utility
☐ Private On-Site Well

12. ENERGY SOURCE

Fuel	Nat Gas	LP	Oil	Elec	Solid	Solar
Space Htg	☐	☐	☐	☐	☐	☐
Water Htg	☐	☐	☐	☐	☐	☐

☐ Dwelling unit has 3 kilowatt or more in electric space heating equipment capacity.

13. HEAT LOSS
_____ BTU/HR Total Calculated Envelope and Infiltration Losses ("Maximum Allowable Heating Equipment Output" on Energy Worksheet; "Total Building Heating Load" on WIScheck report)

14. EST. BUILDING COST
$

I agree to comply with all applicable codes, statutes and ordinances and with the conditions of this permit; understand that the issuance of the permit creates no legal liability, express or implied, on the state or municipality; and certify that all the above information is accurate. If I am an owner applying for an erosion control or construction permit, I have read the cautionary statement regarding contractor financial responsibility on the reverse side of the last ply. 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.

APPLICANT'S SIGNATURE _____ **DATE SIGNED** _____

APPROVAL CONDITIONS This permit is issued pursuant to the following conditions. Failure to comply may result in suspension or revocation of this permit or other penalty. ☐ **See attached for conditions of approval.**

ISSUING JURISDICTION ☐ Town of ☐ Village of ☐ City of ☐ County of ☐ State Inspection Agency #:

Municipality Number of Dwelling Location
___ ___ - ___ ___ ___

FEES:	**PERMIT(S) ISSUED**	**WIS PERMIT SEAL #**	**PERMIT ISSUED BY:**
Plan Review $_____ Inspection $_____ Wis. Permit Seal $_____ Other $_____ Total $_____	☐ Construction ☐ HVAC ☐ Electrical ☐ Plumbing ☐ Erosion Control _____		Name _____ Date _____ Tel. _____ Cert No. _____

SBD-5823(R.04/02) Distribution: ☐Ply 1 - Issuing Jurisdiction ☐Ply 2 - Municipality Forwards to State If New Dwelling ☐Ply 3 - Inspector ☐Ply 4 - Applicant

BUILDING PERMIT APPLICATION – NEW OR ADDITION

CITY OF MIDDLETON
7426 HUBBARD AVE.
MIDDLETON, WI 53562
608/821-8370; FAX: 608/827-1080
cityofmiddleton.us

OFFICE USE ONLY

PERMIT #_____

DATE _____

ISSUED BY:_____

Project Address		Suite #
Applicant	Address	
Applicant E-mail	Applicant Phone	Applicant Fax
Property Owner (if different)	Address	
Owner E-mail	Owner Phone	Owner Fax

_____ RESIDENTIAL _____ COMMERCIAL _____ INDUSTRIAL _____ NEW _____ OTHER_____

Construction Type	Start Date	Est. Completion Date
Setbacks Front: Side R. Side L. Rear	Lot Coverage	Estimated Building Cost $

Building Contractor WI Qualifier #_____

_____ WI Contractor #_____

Address_____

Phone Number_____E-mail Address_____

Electrical Contractor WI Master Electrician License #_____

_____ WI Electrical Contractor # _____

Address _____

Phone #_____ E-mail Address: _____

SQUARE FOOTAGE

BASEMENT _____
1ST FLOOR _____
2ND FLOOR _____
DECK _____
PORCH _____
GARAGE _____
OTHER _____

TOTAL Sq. Ft._____

FEES (OFFICIAL USE ONLY)

BUILDING $_____
ELECTRIC $_____
PLUMBING $_____
HVAC $_____
FIRE SUPP. $_____
FIRE ALARM $_____
AA VALVE $_____

TOTAL $_____

Plumbing Contractor WI Master Plumber License #_____

_____

Address _____

_____ Air Admittance Valve(s) x $50.00 Each = $_____

Phone #_____ E-mail Address: _____

Suppression Contractor Contractor #_____

_____

Address _____

_____

Phone # _____ E-mail Address: _____

Heating Contractor WI HVAC Contractor #_____

_____ WI HVAC Qualifier #_____

Address _____

Phone #_____ E-mail Address: _____

Fire Alarm Contractor Contractor # _____

Address _____

_____

Phone # _____ E-mail Address:

Description of Work:

Date paid: _____ Receipt # _____ Total Permit Fee $_____

I agree to comply with all applicable codes, statutes and ordinances and with the conditions of this permit, understand that the issuance of the permit creates no legal liability, express or implied, on the city, and certify that all the above information is accurate. 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.

_____ _____

Signature of Applicant Date

_____ _____

Print Name

REQUIRED INSPECTIONS (WHERE APPLICABLE);
FOOTING; FOUNDATION; VAPOR BARRIER; ROUGH; INSULATION; FINAL

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 inquiry 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 of 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.

BUILDING INSPECTION DEPARTMENT

CITY OF MIDDLETON
7426 HUBBARD AVENUE
MIDDLETON, WI 53562-3118

PH 608-821-8370 FAX 608-827-1080
Email: buildinginspection@ci.middleton.wi.us
WEB: www.cityofmiddleton.us

INSPECTION CHECKLIST - BUILDING PERMIT#_____

Subcontractors shall request inspections for their own work by contacting the **BUILDING INSPECTION DEPARTMENT** at 821-8370. Failure to give proper inspection notification may result in fines. The Building Permit Applicant (signature on application) is responsible to verify that all required inspections have been made. Any developer/contractor who calls for an inspection before the work is ready for inspection may be assessed a fine of fifty dollars ($50.00) per inspection.

EROSION CONTROL INSPECTION to be completed prior to footing inspection. Perimeter erosion control measures shall be placed within 24 hrs after beginning excavation.

FOOTING INSPECTION to be completed after f01ms and required reinforcing are in place, but before concrete is poured.

FOUNDATION INSPECTION to be completed before backfilling.

ROUGH INSPECTION to be completed for each category below before work is covered or concealed.

UNDERGROUND/UNDERSLAB PLUMBING/ELECTRICAL/HVAC
UNDER FLOOR VAPOR BARRIER (BASEMENT)
BUILDING FRAMING
ELECTRICAL
PLUMBING
HVAC

INSULATION INSPECTION to be completed after insulation and vapor barrier are in place, but before they are covered or concealed.

FINAL INSPECTION to be completed for each category below after all work is completed, but before use or occupancy.

BUILDING
ELECTRICAL
PLUMBING
HVAC

Inspection results will be posted on the doorjam of a bathroom (residential) or near the front door (commercial).

Work shall not proceed until required inspections are completed and approval has been granted. If a required inspection is not completed within two (2) working days after proper notification has been given, the contractor may proceed to the next phase of construction.

THE MIDDLETON BUILDING CODE REQUIRES THAT A CERTIFICATE OF OCCUPANCY BE ISSUED BY THE BUILDING INSPECTOR PRIOR TO THE OCCUPANCY OR USE OF THE BUILDING. THIS ALSO COVERS USING A BUILDING FOR STORAGE OR MOVING ITEMS INTO THE BUILDING.

ZONING PERMIT
CITY OF MIDDLETON CHECKLIST

REQUIREMENTS PER SECTION 10.10.41

APPLICATION REQUIREMENTS

The City **strongly prefers** to receive the application electronically via e-mail to planning@cityofmiddleton.us, although a paper copy will also be accepted.

- ❑ Completed and signed Zoning Permit application (this form).
- ❑ The location and use of all existing and proposed structures on-site. For non-residential projects, also provide the total amount of on-site employees (if applicable)
- ❑ Site Plan submitted in accordance with Section 10.10.43. See also the Site Plan Checklist.
- ❑ Payment of the zoning permit fee*

*You will receive an email regarding permit payment options after your permit has been reviewed.

- Prior to plan submittal, applicant should identify lot boundaries and determine whether any public or private easements affect the property.
- Prior to construction, contact Diggers Hotline at (800) 242-8511 or https://www.diggershotline.com/
- Some properties in the city require the approval of a Neighborhood Architectural Review Committee or Homeowner's Association that is separate from the City's permitting process.

PROCEDURES

1. Action by Zoning Administrator. A Zoning Permit shall be granted or denied by the Zoning Administrator, in writing within 30 days of the application, and the applicant shall post such permit in a conspicuous place at the site. Any permit issued in conflict with the provisions of the Chapter shall be null and void.
2. Time Limits on Zoning Permits. The work shall begin within 365 days of approval and be completed within 730 days. Time limits for Conditional Use Permits and Variances may be established at the time of approval. All other permits shall meet the timelines required at the time of issuance as listed elsewhere in the zoning ordinance (Chapter 10).

PROCESS CHECKLIST (to be completed by city staff)

- ❑ Application fee (see fee structure below) received by the Public Works Office Manager — Date: _____
- ❑ Complete application packet received by planning@cityofmiddleton.us and the Public Works Office Manager — Date: _____
- ❑ Reimbursement of professional consultant costs agreement executed (if applicable). — Date: _____
- ❑ Review and action by Planning Staff — Date: _____

FEES: Zoning Permit Fees (pursuant to City of Middleton Code of Ordinances, Section 10.10.61)
Only one fee is charged per application. If an application includes more than one structure type on the same lot, only the highest fee applies.

PROJECT CLASS	PRINCIPAL STRUCTURE	ADDITIONS	ACCESSORY STRUCTURES
One and Two Family	$300	$100	$50
Multi-Family	$500	$250	$100
Small Commercial/Industrial (up to 20,000 sf)	$500	$250	$100
Large Commercial/Industrial (Over 20,000 sf)	$1,000	$250	$100

ZONING PERMIT

Submit electronically to planning@cityofmiddleton.us

No structure shall be erected or altered without first obtaining a Zoning Permit pursuant to Section 10.10.41 of the City of Middleton Zoning Ordinance as well as the appropriate Building Permit(s).

PERMIT #:
PERMIT FEE: $ _____
APPROVED BY: _____
APPROVAL DATE: / /

ADDRESS OF PROPERTY:

APPLICANT NAME (PROJECT REP, CONTRACTOR, ETC.)	OWNER NAME
BUSINESS NAME (IF APPLICABLE)	CO-OWNER NAME (IF APPLICABLE)
ADDRESS	ADDRESS
CITY, STATE, ZIP	CITY, STATE, ZIP
PHONE	PHONE
E-MAIL	E-MAIL

WORK CONSISTS OF:

PROJECT CLASS (CIRCLE ONE)	SINGLE-FAMILY	TWO-FAMILY	MULTI-FAMILY	SMALL COMMERCIAL/INDUSTRIAL (UP TO 20,000 SF)	LARGE COMMERCIAL/INDUSTRIAL (OVER 20,000 SF)
PROJECT SCOPE (CIRCLE ALL THAT APPLY)	NEW STRUCTURE		ADDITION		ALTERATION
STRUCTURE TYPE (CIRCLE ALL THAT APPLY)	PRINCIPAL STRUCTURE		DECK	FENCE	
	GARAGE		SHED	POOL	OTHER: _____

SITE DATA:	**LOT AREA**	**IMPERVIOUS SURFACE AREAS**	**EXISTING**	**PLANNED**
ZONING		STRUCTURES (INCLUDE ALL OVERHANGS)	SF	SF
		DRIVEWAYS, PARKING AREAS, WALKWAYS	SF	SF
		OTHER FLAT SURFACES (PATIOS, DECKS, ETC.)	SF	SF

I, the undersigned, do hereby certify that the above information is correct and agree that in the performance of this work I will be bound by and submit to all statutes of the State of Wisconsin, conform to all applicable codes and ordinances of the City of Middleton, and abide by all other applicable rules and regulations. Furthermore, I understand that the City of Middleton is not responsible for enforcing neighborhood covenants, and any granted zoning variances apply only for the specific structure(s) reviewed by the Zoning Board of Appeals. I understand that the City may remove any structure or landscaping feature placed within or upon a public utility easement, and that any repair or restoration work will be at property owner expense.

SIGNATURE OF APPLICANT: _____ **DATE:** _____

STAFF REVIEW – TO BE COMPLETED BY PLANNING AND ZONING OFFICIALS ONLY

ADDRESS		REVIEWED BY
ZONING	PDD NAME (IF APPLICABLE)	REVIEW DATE
PERMITTED USE YES NO CONDITIONAL USE RECEIVED ON: _____		FLOODPLAIN YES NO UNCLEAR
LOT AREA (SF)	CORNER LOT YES NO	FEE CATEGORY PRINCIPAL ADDITION ACCESSORY

ZONING REQUIREMENTS

SETBACKS	ALLOWED BY CODE (IN FEET UNLESS OTHERWISE INDICATED)	COMPLIANCE	COMMENTS
FRONT	MIN MAX	YES NO	
REAR	MIN MAX	YES NO	
LEFT		YES NO	
RIGHT		YES NO	
PERMITTED PROJECTIONS (LIST, IF ANY)		YES NO YES NO	
MAXIMUM BUILDING HEIGHT	FEET STORIES	YES NO	
ACCESSORY STRUCTURES (LIST, IF ANY)	SETBACKS HEIGHT	YES NO YES NO	
DRIVEWAY REGULATIONS	WIDTH SETBACK	YES NO	
MAXIMUM IMPERVIOUS SURFACE	PERCENT AREA	YES NO	

CONDITIONS OF APPROVAL

1. DURING CONSTRUCTION, ALL LOT CORNER MONUMENTS MUST BE VISIBLE OR INDICATED BY STAKES.
2. COMPLIANCE WITH CONDITIONS OF APPROVAL STIPULATED BY:
   a. PLAN COMMISSION MINUTES OF _____
   b. ZONING BOARD OF APPEALS MINUTES OF _____

WATER CALCLULATION WORKSHEET

CITY OF MIDDLETON
7426 HUBBARD AVE
MIDDLETON, WI 53562
Phone (608) 827-1070 ● Fax (608) 827-1080

Property_____ Permit No._____

Information Needed For Service & Distribution Sizing

1. Demand of building in G.P.M._____.
2. Low pressure at main in street_____.
3. Difference in elevation. Main to meter_____. Pressure loss in_____P.S.I.
4. Difference in elevation. Meter to highest fixture_____. Pressure loss in _____P.S.I.
5. Size of water meter_____. Pressure loss in _____ P.S.I.
6. Distance main to meter_____. Pressure loss in _____ P.S.I.
7. Distance meter to furthest fixture_____.

Your First Goal Is To Find The Available Pressure After The Water Meter. To obtain this, you must:

1. Find pressure loss due to friction in water service. If using "K" copper, look at "K" copper chart [H62.13 (4) (c) Table 16A]. Using the G.P.M. demand of building, go horizontally to size of service you want to use. Look straight down and find pressure loss per 100'.

   Example: Demand of building is 20 G.P.M. We think a 1" service is necessary. Follow 20 G.P.M. to the 1" line. Look straight down, the pressure loss per 100' is approximately 17 lbs. On this building we have a 120' service. The method used for finding this loss is $\frac{17}{100} = \frac{X}{120}$

   X = Pressure loss through service. You must cross multiply and divide 17 x 120-100 = 20 lbs. loss due to friction.

2. Find pressure loss due to elevation (main to meter). Take this distance and multiply by .434.
3. Find pressure loss due to meter. Look at last page in Water Distribution Manual.
4. Add together loss due to friction (Step 1). Loss due to elevation (Step 2) and loss due to meter (Step 3). Subtract these from the minimum street pressure. This gives you available pressure after the water meter.

Using The Following Formula, Find Uniform Pressure Loss. $A = \frac{B - (C+D+E)}{F} \times 100$

Where

A. _____ Pressure available for uniform loss P.S.I./100.

B. _____ Available pressure after water meter.

C. _____ Pressure needed at furthermost or controlling fixture.

D. _____ Difference in elevation between water meter and highest fixture in feet X .434.
Pressure loss in _____ P.S.I.

E. _____ Pressure loss due to heater, softener, etc.

F. _____ Total length between water meter and furthest fixture in feet X 1.5 (loss due to fittings and valves).

G. Size of water service.

H. _____ Distribution pipe size after meter.

With uniform pressure loss, go to applicable Table per distribution sizing.

Form B0011 (revised 9/7/2005)

Middleton Building Inspection

7426 Hubbard Ave
Middleton, Wisconsin 53562
Phone: (608) 821-8370 ● Fax: (608) 821-1080

UNIFORM DWELLING CODE—EROSION CONTROL PLAN

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

UNIFORM DWELLING CODE

CONTROLS REQUIRED:

- Silt fences, straw bales, or other approved perimeter measure along down slope side 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.

STORMWATER PERMITS

CONTROLS REQUIRED:

- Measures to control water after construction.

QUESTIONS:

- Call Middleton Building Inspection / Public Works 608-821-8370

Standard Erosion Control Plan- 1 & 2 Family Dwelling Construction Sites—Site Diagram

According to Chapters 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 the requested information and completing the site diagram.
2. In completing the site diagram (page 3), 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.
4. Person responsible for permanent stabilization must sign page 2.

Erosion Control Plan

For 1 & 2 Family Dwelling Construction Sites

Project Location: Subdivision_____ Lot_____ Section_____ Township T____N Range R_____W

Builder: _____ Phone: _____ E-mail _____

Owner: _____ Phone: _____ E-mail _____

Worksheet Completed by: _____ Phone: _____ E-mail _____

Building Foot Print: _____Sq. Ft Anticipated Disturbance: _____Sq. Ft.

Outbuildings Foot Print Square Footage: _____Sq. Ft. Driveway/Road Foot Print:_____Sq. Ft.

Erosion Control Strategies

Complete

Permanent Stabilization:

☐ Re-vegetation method: ☐ Seed ☐ Sod ☐ Other_____

☐ Expected date of permanent stabilization: _____

☐ If not stabilized by September 15 how will site be stabilized over winter? _____

☐ **Final stabilization responsibility of:** _____

☐ Show where down spout extenders will outlet. The outlet will be located on permanent vegetation, rock riprap or alternative stabile feature.

☐ Show areas with slopes of 12% or greater. **Label on site diagram.**

☐ What practices will be utilized to control erosion on slopes of 12% or greater _____

→Examples: Additional silt fence, divert storm water to stabile area (diversion), seeding with use of erosion control mats

☐ What perimeter measures will be utilized downslope to control off site impacts _____

→ Examples: maintain permanent vegetative buffer - minimum 10' width, silt fence, straw bales, and/or sediment basin. **Show locations on site diagram.**

☐ Location of access drive. Show on site diagram

→Access drive will be constructed of ¾" crush aggregate or 2"-3" clean stone will be laid at least 7' wide and 6" thick. The drive will extend from the roadway 50 feet or to the house foundation (whichever is less)

☐ Show areas of concentrated flow. **Label on site diagram.**

☐ How will erosion be controlled in concentrated flow areas _____

→Example practices: in-channel erosion control blankets, straw bale ditch checks, staked sod, rock rip-rap

☐ How will storm sewer inlets be protected? **If present show location on site diagram.**

Builder Name _____Signature_____Date_____

Owner Name _____ Signature _____ Date _____

Party Responsible for Final Stabilization:

Name: _____Signature _____ Date_____

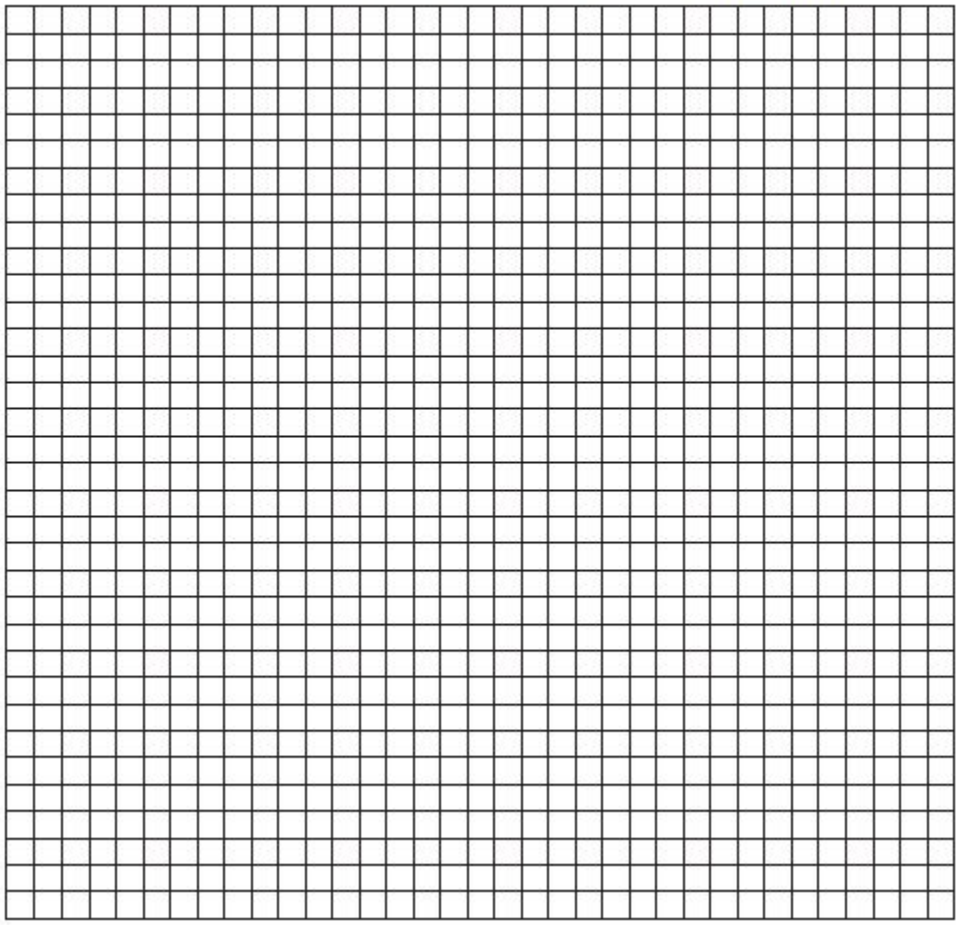
Complete

Use the site diagram below or attach a site diagram to this form showing the required information on page 2. On the site diagram please label the following:

- ☐ North arrow, scale, and site boundary
- ☐ Label streets
- ☐ Location of existing drainage ways, streams, rivers, lakes, wetlands, wells
- ☐ Location of storm sewer inlets.
- ☐ Location of existing and proposed buildings and paved areas
- ☐ The disturbed area on the lot—Location of disturbance on the lot
- ☐ Approximate grade and direction of slopes before grading operations
- ☐ Approximate grade and direction of slopes after grading
- ☐ Overland runoff coming onto the site from adjacent areas

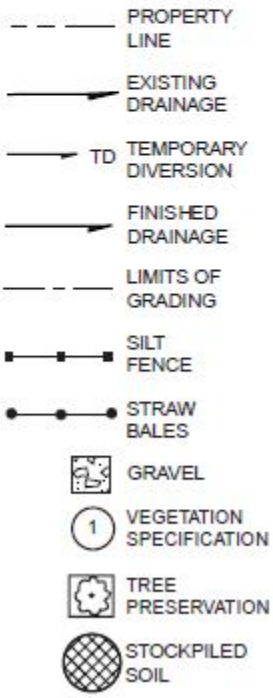
SITE DIAGRAM

Scale: 1 inch = ____feet



Please indicate north by completing the arrow.

EROSION CONTROL PLAN LEGEND



Erosion Control Measures/Installation Maintenance Agreement

Middleton Building Inspection
7426 Hubbard Ave
Middleton, WI 53562
608-821-8370 / 608-821-1080 FAX
www.cityofmidleton.us

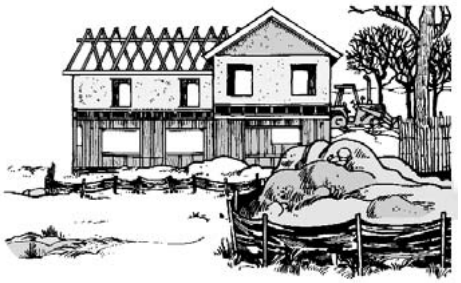
1. All erosion control procedures shall be installed to maximize performance.
2. Erosion control procedures shall be installed according to the timeframe set forth in the UDC
    a. perimeter controls within 24 hours of land disturbance
    b. non-tracking access drive prior to framing above the first-floor decking
3. Sediment shall be removed from behind sediment controls once it has reached a depth that is equal to half the control's height.
4. Breaks and gaps in sediment controls shall be repaired. Decomposing straw bales shall be replaced.
5. All sediment that moves off-site due to construction activity shall be cleaned before the end of the next workday.
6. All sediment that moves off-site due to storm events shall be cleaned before the end of the next workday.
7. Non-tracking access drives shall be maintained throughout construction.
8. All erosion control procedures shall be maintained until site is stabilized.
9. Final grading and restoration shall comply with the approved grading plan for the subdivision, including any spot elevations that may be shown.

Agreement:
I hereby certify that I understand the construction site control provisions of the Wisconsin Uniform Dwelling Code, and that I accept responsibility for carrying out the erosion control plan as approved by the City of Middleton

_____ _____
Name of Responsible Party Telephone

_____ _____
Signature E-mail Address

_____
Date



Erosion Control for Home Builders

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

Eroding 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-by-step 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.

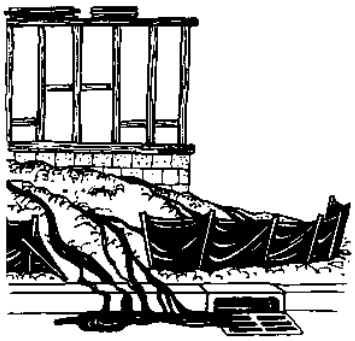
If you need help developing an erosion control plan or training your staff, contact your local building inspection, zoning or erosion control office.

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 additional information, contact City of Menasha Community Development at 920.967.3650

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-to-three-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

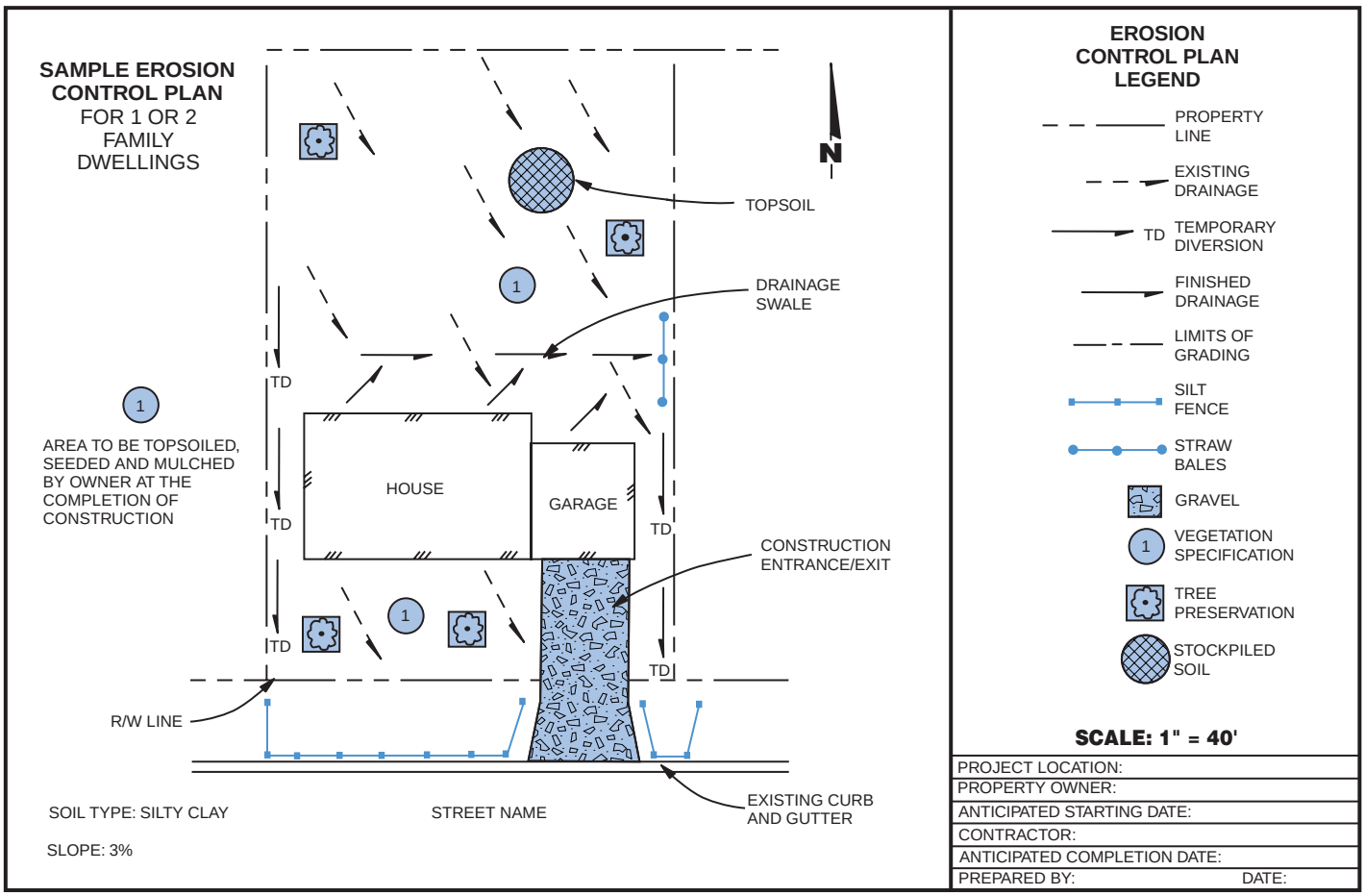
- Wherever possible, preserve existing trees, shrubs, and other vegetation.
- To prevent root damage, do not grade, place soil piles, or park vehicles near trees marked for preservation.
- Place plastic mesh or snow fence barriers around trees to protect the root area below their branches.

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.



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 de-watering operations into storm sewers and surface waters.

Material Storage

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

Typical Lawn Seed Mixtures

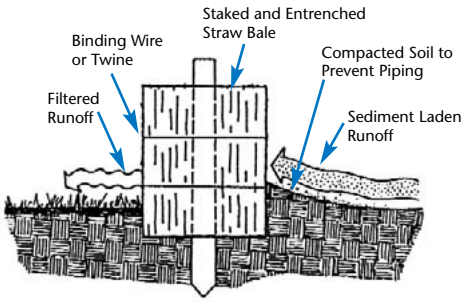
Grass	Percent by Weight Sunny Site	Shady Site
Kentucky bluegrass	65%	15%
Fine fescue	20%	70%
Perennial ryegrass	15%	15%
Seeding rate (lb./1000 sq. ft.)	3-4	4-5

Source: R.C. Newman, Lawn Establishment, UW-Extension, 1988.

COMMONLY USED EROSION CONTROLS

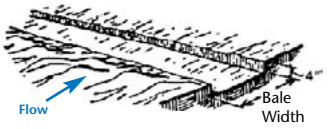
Straw Bale Fences

Cross Section of Straw Bale Installation



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

How to Install a Straw Bale Fence



1. Excavate a 4" deep trench.

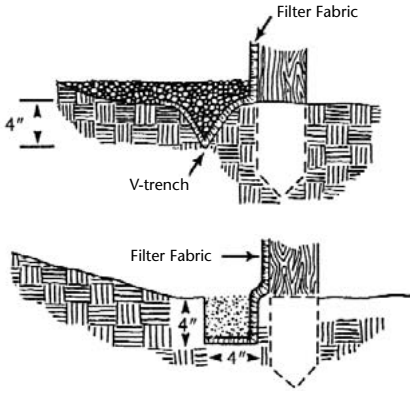
2. Place bales in trench with bindings around sides away from the ground. Leave no gaps between bales.

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

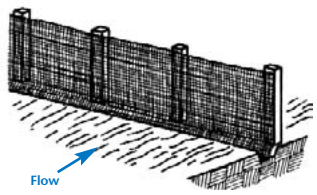
Cross Sections of Trenches for Silt Fences



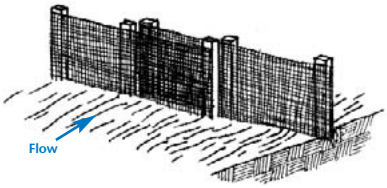
Sources: North Carolina Erosion and Sediment Control Planning and Design Manual, 1988.

How to Install a Silt Fence

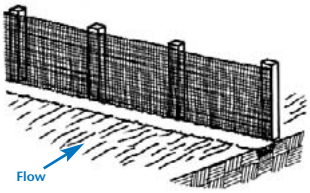
1. Excavate a 4" x 4" trench along the contour.



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



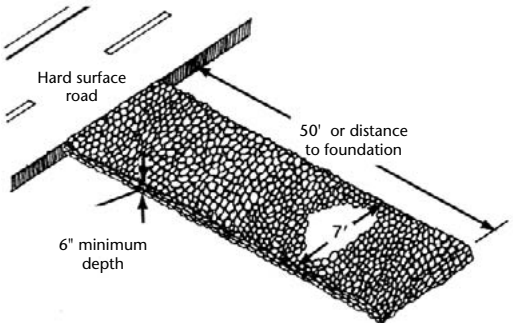
3. When joints are necessary, overlap ends for the distance between two stakes.



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.

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