

CITY OF FOND DU LAC
RESIDENTIAL DRAINAGE PLAN REQUIREMENTS

A drainage plan shall be required for construction of any building with an area of 650 square feet or greater and for any grading or landscaping that will change the elevations of a lot. The following items make up a checklist of information that will be required to constitute an adequate drainage plan.

1. Person or firm that is preparing a residential drainage plan shall affix the certification (stamp) & signature of a registered engineer, land surveyor or architect as described in Chapter A-E of the Wisconsin Administration Code and required by the Department of Safety and Professional Services. Persons other than described above can prepare residential drainage plans submitted by the Builder, provided the plan includes a stamped certification & signature of a licensed professional ensuring existing conditions of the site on the drainage plan at the time of drainage plan submittal.

The elevation certification in either case shall be of the following form:

I hereby certify that the elevations shown on this drawing are a true and correct representation of the existing conditions as obtained by field survey on _____, 20_____.

Name, Registration No.

Existing elevations shall be provided to adequately portray drainage patterns on and adjacent to the parcel for which the drainage plan is submitted. Such existing elevations shall include, at a minimum, existing grades at lot corners, at grade breaks, adjacent top of curbs, ground elevations at on-site and adjacent structure foundations, and elevations at least 25 feet outside the parcel alongside and rear lot lines, ditch flow lines and culverts where applicable, and any storm runoff receiving structure within those limits. Proposed grades shall be shown at lot corners, grade breaks, swales, berms and around the foundation of new structures and anywhere around the structure that the grade changes. If you are preparing a drainage plan for a lot in a subdivision that has a master drainage plan then the grades from the master drainage plan shall be used to design your plan. Show interval proposed grades between master grades on lot lines at least every 25 – 30 feet. Deviation from the master plan will require approval from the City of Fond du Lac Engineering Dept., and written approval from the lot owner, and owners of all adjacent lots that are affected by the change.

2. Two (2) copies of the drainage plan will be required, each certified, signed and sealed as noted above. Plans shall be submitted to the City of Fond du Lac Engineering Division, 4th floor of the County/City building located at 160 S. Macy St. Fond du Lac.
3. Plans can be hand drawn or computer generated and must be drawn to scale (not less than 1" = 40'), plan sheet shall be no smaller than 8 ½" x 11" and include the scale on drawing.
4. Property identification includes: Name of plat, lot number, address or mete and bounds of description, lot dimensions and area of lot.
5. Properly oriented North Arrow.

6. Identify utility easements, if any, along with utility type and dimension. Show utility structures (boxes).
7. Include street names adjacent to proposed site with correct right of way widths.
8. Identify any floodplain, floodway, or wetland delineation information which may affect the site and floodplain elevation.
9. Provide the location, elevation, and datum of benchmarks to be used on the construction site. Include two benchmarks minimum for accurate cross checking. Benchmarks shall match those provided in accordance with the master drainage plan when applicable. If you are working outside an area without a master drainage plan benchmarks on the NAVD88 datum shall be used. Call City Engineering Dept. for current updated benchmarks at 920-322-3470 or visit the City of Fond du Lac's Website www.fdl.wi.gov
10. Show locations of new buildings, existing buildings, driveways, sidewalks, etc. Dimensions of the closest point of structure from all lot lines. Show the square footage of the footprint of building including home, garage, & stoop.
11. Include the name and phone of firm submitting the plans.
12. Legends are necessary and proposed and existing grades shall be shown differently.
13. Drainage patterns should flow along the lot lines whenever possible. Lot line grades should not be disturbed in an existing neighborhood without the written approval of adjacent lot owners.
14. Show proposed grades at home or structure and everywhere they change around the foundation. The finished grade of the soil shall slope away from the dwelling at a rate of at least $\frac{1}{2}$ " per foot for a minimum of 10 feet, or to the lot line, whichever is less.
15. Minimum slopes:
 - On grass shall be 1.0% (12" per 100')
 - On asphalt areas shall be 0.50% (6" per 100')
 - On concrete areas shall be 0.40% (4 %" per 100')
- 16. Maximum slope from the perimeter of the structure to the adjacent property line shall be no more than 25% (4' per 1' vertical distance) unless otherwise approved by the City Engineer and as site conditions warrant.**
17. If a culvert is necessary then provide the diameter, length and type. Show proposed flow line grades at both ends and existing and proposed flow line grades in ditches.
18. Roof water shall be deposited no closer than 4 feet from the base of exterior walls and where possible, not closer than 4 feet to any lot line.

19. Sump pump water shall discharge no closer than 8 feet to any lot line. A sump pump installed in conjunction with the construction of a residential building shall discharge to the municipal storm sewer via an approved connection. This requirement shall apply where a storm sewer lateral is available for the construction of new single-family & two-family residences
20. Erosion control measures shall be detailed on the drainage plan. Erosion control shall be maintained through construction until landscaping is completed. Erosion control design and installation standards can be found on the Dept. of Natural Resources website at:
https://dnr.wi.gov/topic/stormwater/standards/const_standards.html.
All erosion control measures shall follow the DNR standard.
21. Add note: Tracking pad required in location of proposed driveway. Pad to be a minimum of 14' wide and consist of 3" fractured clear stone. 6" deep from garage to road.
22. Add note: Contractor to call City Engineering for public sidewalk and driveway approach staking.
23. Contractors, excavators, and landscapers shall ALWAYS work with the City of Fond du Lac's Approved Drainage Plan. A copy of the approved drainage plan shall be on site whenever grading is being performed.
Deviations from the approved drainage plan must be approved prior to construction.

Any questions can be directed to the City Engineering Division at 920-322-3481 or 920-322-3470.