



HOW DOES THE WISCONSIN DEPARTMENT OF COMMERCE REGULATE POST-CONSTRUCTION STORMWATER?

The Wisconsin Department of Commerce (Commerce) regulates erosion and sediment control on one- and two-family dwellings and public buildings and places of employment (commercial) buildings.

Commerce regulates post-construction stormwater in three chapters of the Wisconsin Administrative Code. The Uniform Dwelling Code (UDC) for single and two family homes, the Commercial Building Code, and the Plumbing Code all have ties to requirements for post-construction stormwater management. The rules of these chapters are summarized in the following table:

Chapter/ Section	Chapter Title	Related Content
Comm 21/ 21.126	Construction Standards	Requires compliance with NR 151.12 for post-construction stormwater management installation and maintenance for sites where 1 or more acres will be disturbed for one- or two-family residences
Comm 60/ 60.30	Erosion Control, Sediment Control and Storm Water Management	Requires post-construction stormwater management for commercial building sites where 1 acre or more will be disturbed
Comm 82/ 82.36, 82.365, 82.38, 82.70	Design, Construction, Installation, Supervision, Maintenance and Inspection of Plumbing	<p>S. Comm 82.36 - Requirements for plumbing detention and conveyance stormwater systems</p> <p>S. Comm 82.365 - Requirements for stormwater subsurface infiltration plumbing systems (trenches)</p> <p>S. Comm 82.38 – Requirements for the discharge points for secondary roof drain systems and other storm drainage systems</p> <p>S. Comm 82.70 - Requirements for plumbing treatment standards. Section includes performance standards for the use of treated stormwater and the subsurface infiltration of stormwater</p>
Comm 84	Plumbing Products	Details the process for Commerce to review and approve products for use and installation in plumbing systems
Comm 85/ 85.10 85.20 – 85.60	Soil and Site Evaluations	<p>S. Comm 85.10 - Requirements for professional qualifications for those persons performing soil and site evaluations for plumbing stormwater infiltration systems</p> <p>Ss. Comm 85.20 – 85.60 – Requirements for soil and site evaluations and the reporting of the evaluations</p>

HOW DO THE VARIOUS CHAPTERS OF THE COMMERCE CODE RELATE IN TERMS OF STORMWATER MANAGEMENT?

Plumbing Code (Chs. Comm 81-87)

The stormwater requirements found in the plumbing code generally relate to the design, construction, installation, supervision, maintenance and inspection of stormwater and clearwater plumbing systems. The requirements include but are not limited to:

- Plan review thresholds
- Proper sizing of piping, products and appurtenances to accommodate design flows
- Requiring setbacks from other infrastructure or sensitive areas
- Trap and venting requirements
- Site evaluation and design requirements for subsurface infiltration systems
- Treatment standards for stormwater use and infiltration
- Operation and maintenance requirements for stormwater plumbing systems
- Piping and material specifications
- Product approval processes

Commercial Building Code (Ch. Comm 60)

- Chapter Comm 60 includes requirements for post-construction stormwater management. The code directly references s. NR 151.12 which is the Wisconsin Department of Natural Resources' code that establishes performance standards for post-construction stormwater management. Performance standards include but are not limited to:
 - The suspended solid load of stormwater runoff from a site
 - The peak flow rate of discharge from a site
 - The volume of stormwater required to be infiltrated within the boundaries of a site
 - Prohibitions on stormwater infiltration near protective areas surrounding lakes, streams, rivers, and wetlands
 - Prohibitions from infiltrating runoff from fueling and vehicle maintenance areas

UDC Code (Comm 20-25)

The UDC references the plumbing code. The UDC requires those areas of one acre or more disturbing activity comply with s. NR 151.12, identical to the Commercial Building Code.

**WHAT STORMWATER MANAGEMENT DESIGN APPROVALS
DO I NEED FROM THE DEPARTMENT OF COMMERCE?**

WHAT AM I REQUIRED TO SUBMIT TO THE DEPARTMENT OF COMMERCE?

**WHAT HAPPENS TO A POST-CONSTRUCTION STORMWATER MANAGEMENT DESIGN
UNDER THE AUTHORITY OF COMMERCE?**

The required submittal and approval process for both the post-construction and plumbing aspects of stormwater regulation are summarized in the figure titled Wisconsin Department of Commerce Stormwater Regulatory Process.

**WHAT PART OF A STORMWATER MANAGEMENT SYSTEM IS CONSIDERED PLUMBING
AND SUBJECT TO PLUMBING REVIEW?**

Stormwater systems are subject to plumbing review if the design includes:

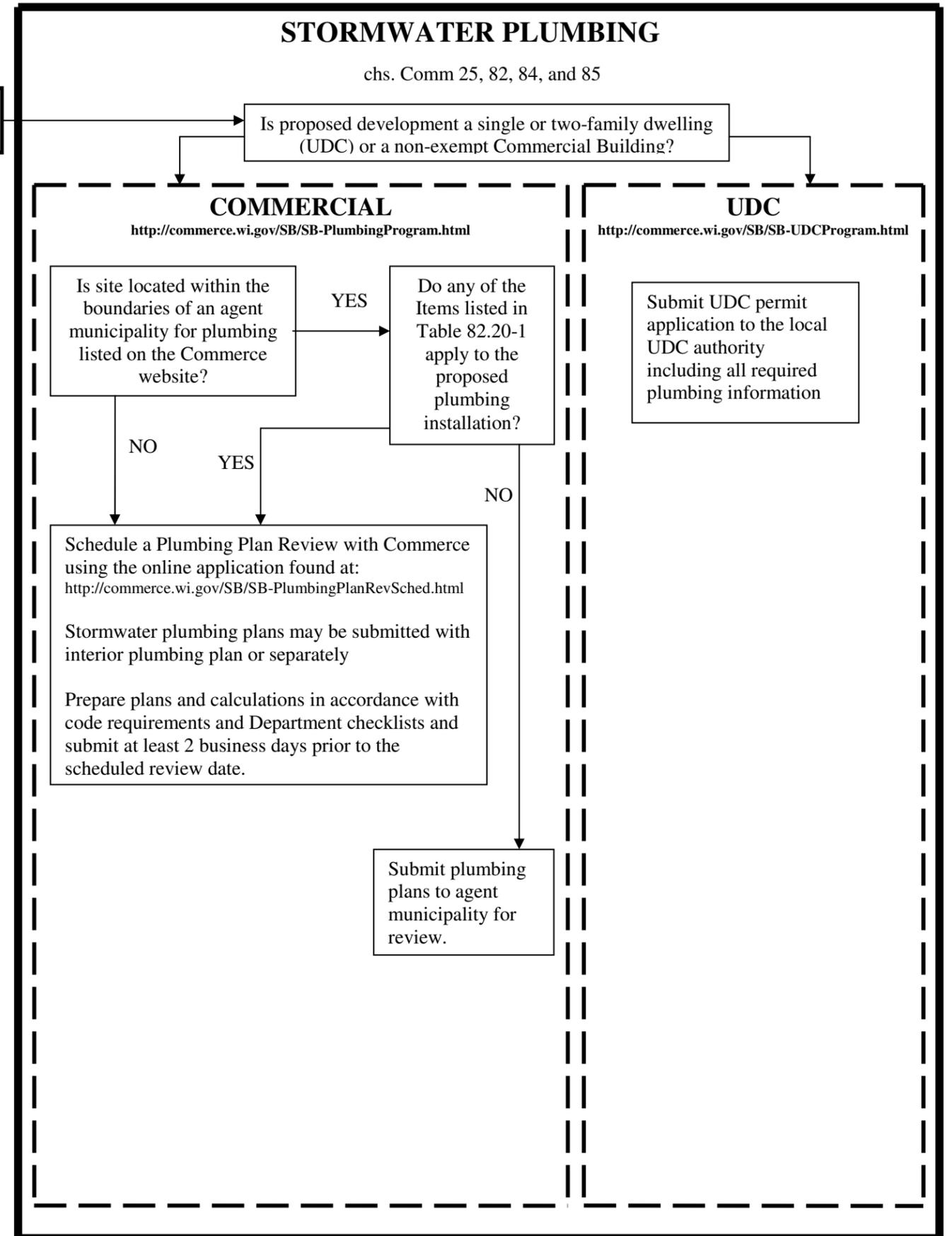
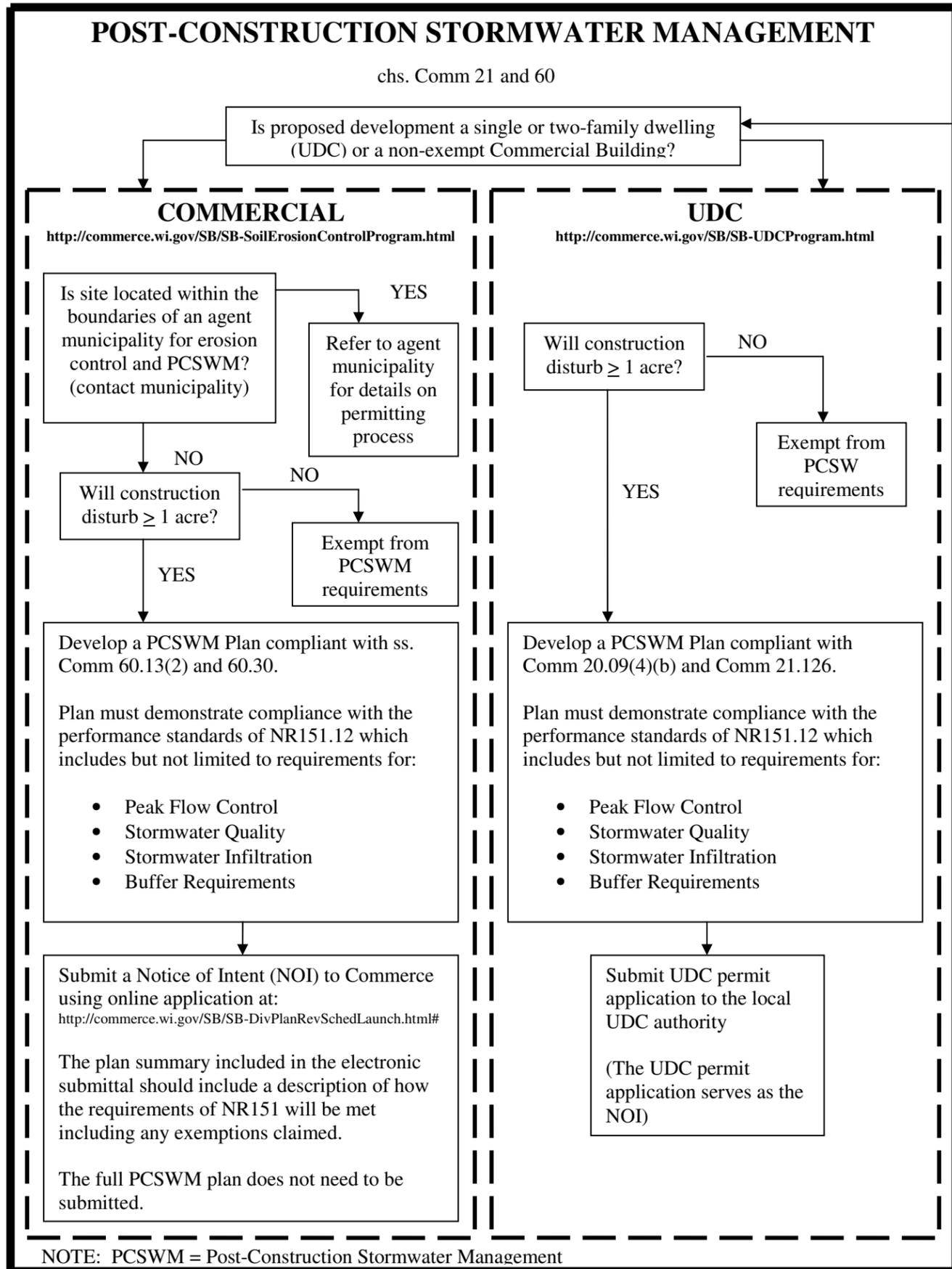
- Except for direct replacement, new installations, additions, and alterations to drain systems, vent systems, water service systems, and water distribution systems involving 16 or more fixtures to be installed in connection with a public building. The 16 fixtures include all fixtures in the entire proposed plumbing system and are not just the fixtures that are part of the stormwater system itself. Water heaters, floor drains, storm inlets, roof drains and hose bibs are to be counted as plumbing fixtures. See Comm 82.20, Table 82.20-2.
- Stormwater systems serving a public building or facility where the drainage area is one acre or more See Comm 2.20, Table 82.20-2. Since the plumbing code requires control of the 100-year, 24-hour storm, the inlets receiving stormwater runoff from the building during a 100-year, 24-hour storm event are considered plumbing. See Comm 82.36(5)
- Stormwater use systems for one- and two-family dwellings or commercial buildings. See Comm 82.20, Table 82.20-1
- Stormwater systems in hospitals, nursing homes or ambulatory care centers. See Comm 82.20, Table 82.20-1

**HOW DO I SUBMIT A STORMWATER PLUMBING PLAN FOR APPROVAL AND WHAT DO
I SUBMIT?**

Procedures for scheduling a plumbing submittal are available on the department's website at <http://commerce.wi.gov/SB/SB-PlumbingPlanRevSched.html>. A User's Guide is also available on the web page.

The Department has developed a checklist to assist submitters in including the necessary information for the Department to complete the review. A copy of this checklist is presented at the end of this document.

WISCONSIN DEPARTMENT OF COMMERCE STORMWATER REGULATORY PROCESS



I want to build

NOTE: PCSWM = Post-Construction Stormwater Management