



WISCONSIN LEGISLATIVE COUNCIL RULES CLEARINGHOUSE

Ronald Sklansky
Clearinghouse Director

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Clearinghouse Assistant Director

Terry C. Anderson
Legislative Council Director

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Legislative Council Deputy Director

CLEARINGHOUSE REPORT TO AGENCY

[THIS REPORT HAS BEEN PREPARED PURSUANT TO S. 227.15, STATS. THIS IS A REPORT ON A RULE AS ORIGINALLY PROPOSED BY THE AGENCY; THE REPORT MAY NOT REFLECT THE FINAL CONTENT OF THE RULE IN FINAL DRAFT FORM AS IT WILL BE SUBMITTED TO THE LEGISLATURE. THIS REPORT CONSTITUTES A REVIEW OF, BUT NOT APPROVAL OR DISAPPROVAL OF, THE SUBSTANTIVE CONTENT AND TECHNICAL ACCURACY OF THE RULE.]

CLEARINGHOUSE RULE 02-002

AN ORDER to . . . , relating to the Wisconsin uniform plumbing code, fees, amusement rides and design and construction of public swimming pools.

Submitted by **DEPARTMENT OF COMMERCE**

01-02-02 RECEIVED BY LEGISLATIVE COUNCIL.

02-04-02 REPORT SENT TO AGENCY.

RNS:MCP:ksm;tlu

LEGISLATIVE COUNCIL RULES CLEARINGHOUSE REPORT

This rule has been reviewed by the Rules Clearinghouse. Based on that review, comments are reported as noted below:

1. STATUTORY AUTHORITY [s. 227.15 (2) (a)]

Comment Attached YES NO

2. FORM, STYLE AND PLACEMENT IN ADMINISTRATIVE CODE [s. 227.15 (2) (c)]

Comment Attached YES NO

3. CONFLICT WITH OR DUPLICATION OF EXISTING RULES [s. 227.15 (2) (d)]

Comment Attached YES NO

4. ADEQUACY OF REFERENCES TO RELATED STATUTES, RULES AND FORMS [s. 227.15 (2) (e)]

Comment Attached YES NO

5. CLARITY, GRAMMAR, PUNCTUATION AND USE OF PLAIN LANGUAGE [s. 227.15 (2) (f)]

Comment Attached YES NO

6. POTENTIAL CONFLICTS WITH, AND COMPARABILITY TO, RELATED FEDERAL REGULATIONS [s. 227.15 (2) (g)]

Comment Attached YES NO

7. COMPLIANCE WITH PERMIT ACTION DEADLINE REQUIREMENTS [s. 227.15 (2) (h)]

Comment Attached YES NO



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CLEARINGHOUSE RULE 02-002

Comments

[NOTE: All citations to "Manual" in the comments below are to the Administrative Rules Procedures Manual, prepared by the Revisor of Statutes Bureau and the Legislative Council Staff, dated September 1998.]

2. Form, Style and Placement in Administrative Code

- a. The underline should be deleted under "84" in s. Comm 81.01 (7e).
- b. The first "and" in s. Comm 82.10 (1) should be underscored.
- c. In SECTION 46, "is" should be inserted before "repealed."
- d. SECTIONS 52 and 53 should be consolidated. The treatment clause should read: "SECTION 52. Comm 82.20 (4) (c) and (e) are renumbered Comm 82.20 (4) (b) to (d) and Comm 82.20 (4) (b), as renumbered, is amended to read:". Also see SECTIONS 151 and 152.
- e. In s. Comm 82.30 (4) (d) 5., the number should be changed by striking the old number and underscoring the entire new number.
- f. Parenthetical abbreviations should be avoided. See s. Comm 82.30 (10) (c) 1. and (d) 1. a.
- g. In s. Comm 82.30 (12) (f), "is" should replace "are".
- h. SECTION 157 repeals s. Comm 82.40 (3) (a) (title). However, the other paragraphs in sub. (3) have titles.

i. Section Comm 82.40 (3) (d) (intro.) should be redrafted to conform with s. 1.03 (8), Manual.

j. In s. Comm 82.40 (7) (h), "of" should be underscored.

4. Adequacy of References to Related Statutes, Rules and Forms

a. In s. Comm 82.33 (9) (a) 2., "subd. 2. b." should replace "subpar. b.".

b. Section Comm 82.33 (9) (c) 1. c. should be compared with amended s. Comm 82.33 (9) (c) 1. b. Would a standpipe receptor that has a diameter of greater than two inches have to satisfy both requirements? Or is subd. 1. b. intended to be limited to standpipe receptors with a diameter of less than two inches?

c. In s. Comm 82.34 (4) (a) 2. e., "subd. 5." should replace "sub. (4) (a) 5."

d. In s. Comm 82.34 (8), "sub." should replace "subd."

5. Clarity, Grammar, Punctuation and Use of Plain Language

a. The note with two asterisks in SECTION 1 of the rule does not relate to any portion of Table 2.64-1.

b. In s. Comm 81.01 (160m), "noncontinuous" is misspelled.

c. "Homogenous" in s. Comm 81.01 (187e) does not appear to be the correct use of that word. This definition might be rewritten as "a simplex pump and sump designed as a combined unit."

d. Should "pipe" be added at the end of s. Comm 82.37 (3) (a) 1.?



201 West Washington Avenue
P.O. Box 7970
Madison, Wisconsin 53707
(608) 266-1018

Scott McCallum, Governor
Philip Edw. Albert, Acting Secretary

1/2/02

Director
Administrative Rules Clearinghouse
Wisconsin Legislative Council
1 East Main Street, Suite 401
Madison, WI 53703

Dear Director:

**TRANSMITTAL OF PROPOSED ADMINISTRATIVE RULES
FOR LEGISLATIVE COUNCIL REVIEW**

RULE NO.: Chs. Comm 2, 34, 81, 82, 84 and 90

RELATING TO Wisconsin Uniform Plumbing Code; Fees; Amusement Rides; and Design
and Construction of Public Swimming Pools

Pursuant to section 227.15, Stats., agencies are required to submit copies of the proposed rules to the Legislative Council for review.

The attached proposed rules are in the form and style specified by section 227.14, Stats., and are being forwarded to you for review. Also attached are copies of an agency rule report, public notice, fiscal estimate, and initial regulatory flexibility analysis.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Philip Edw. Albert', written in a cursive style.

Philip Edw. Albert
Acting Secretary

STATE OF WISCONSIN
DEPARTMENT OF COMMERCE

**NOTICE OF
PUBLIC HEARING**

NOTICE IS HEREBY GIVEN that pursuant to ss. 101.63 (1) and (2), 101.73 (1) and 145.02 (2), Stats., the Department of Commerce will hold public hearings on proposed rules relating to Wisconsin Uniform Plumbing Code; Fees; Amusement Rides; and Design and Construction of Public Swimming Pools.

The public hearing(s) will be held as follows:

Date and Time:

Wednesday, February 13, 2002
9:30 a.m.

Location:

TG Thompson Commerce Ctr.
201 W. Washington Ave., **Conf. Rm. 3C**
Madison, WI

Interested persons are invited to appear at the hearings and present comments on the proposed rules. Persons making oral presentations are requested to submit their comments in writing. Persons submitting comments will not receive individual responses. The hearing record on this proposed rulemaking will remain open until **February 27, 2002**, to permit submittal of written comments from persons who are unable to attend a hearing or who wish to supplement testimony offered at a hearing.

Written comments should be submitted to:

**Jean M. MacCubbin, Department of Commerce
Administrative Services Division
P.O. Box 2689
Madison, WI 53701-2689**

These hearings are held in accessible facilities. If you have special needs or circumstances that may make communication or accessibility difficult at the hearing, please call (608) 266-8741 or (608) 264-8777 (TTY) at least 10 days prior to the hearing date. Accommodations such as interpreters, English translators, or materials in audio tape format will, to the fullest extent possible, be made available upon request by a person with a disability.

The proposed rules and an analysis of the proposed rules are available on the Internet at the Safety and Buildings Division web site at www.commerce.state.wi.us/SB/SB-HomePage. **Copies may be obtained without cost from Roberta Ward, Department of Commerce, Program Development Bureau, P.O. Box 2689, Madison, WI 53701-2689, Email rward@commerce.state.wi.us, telephone (608) 266-8741 or (608) 264-8777 (TTY).** Copies will also be available at the public hearings.

RULE REPORT

Department of Commerce

RULE NO.: Chs. Comm 2, 34, 81, 82, 84 and 90

RELATING TO Wisconsin Uniform Plumbing Code; Fees; Amusement Rides; and Design and Construction of Public Swimming Pools

Agency contact person for substantive questions:

Name Lynita Docken

Title Plumbing Program Manager

Telephone Number 608-785-9349

Agency contact person for internal processing:

Name Jean M. MacCubbin

Title Code Consultant

Telephone Number 608-266-0955

1. Agency statutory authority under which the agency intends to promulgate the rule(s).
ss. 101.63 (1) and (2), 101.73 (1) and 145.02 (2), Stats.
2. Citation of federal regulations which require adoption or which are relevant to the proposed rule(s).
None known.
3. Citation of court decisions which are applicable to the proposed rule(s).
None known.
4. Description of the proposed rule(s).

A revision to ch. Comm 2, Table 2.64-1 is proposed to include the fees for submittals involving use of alternate standards, designs for water treatment systems and stormwater infiltration systems. A new section, s. Comm 2.645, is proposed to establish a fee for the registration of cross connection control devices or assemblies no longer required to be submitted for plan review. Revisions to s. Comm 2.68 relate to fees for construction inspections for public pools by the department or its agents.

Proposed revisions to ch. Comm 34, amusement rides, encompass deleting the section on waterslides, s. Comm 34.50, and moving that language into s. Comm 90.20 (4).

Changes to s. Comm 82.20 are proposed to eliminate plan review for cross connection control devices and assemblies, except for those installed in health-care and related facilities [Table 82.20-1] and to establish the process for registration of these devices and assemblies [s. Comm 82.20 (13)].

Section Comm 82.20 (4) is being revised to eliminate the need for receipt of the water quality management (WQM) letter prior to plumbing plan approval. Frequently project construction is started prior to receipt of this letter. In most cases the property has passed zoning approval and other building permitting requirements prior to the plumbing plan submittal.

Section Comm 82.40 contains allowance for the use of water in a plumbing system that does not comply with drinking water standards as specified in s. Comm 82.70. Other additions proposed for this section are specific to piping serving water treatment devices. Table 82.40-2 includes revisions to the water supply fixture units for health-care fixtures. Tables 82.40-4 through 82.40-9 are amended to be consistent with adopted NFPA 13D standard and to make the tables specific to this use. Tables 82.40-10 and 82.40-11 are created to reflect loading for various pipe materials.

Section Comm 82.50 is repealed and recreated in its entirety to reflect contemporary health-care practices, such as hospitals, clinics, and operatories, community-based residential facilities and other inpatient and nursing facilities. The section provides language for safeguarding the water supply as well as reducing scalding risk for the end users. Table 82.50-1 is created to specify spouts and actions of various faucets when used in health care and related facilities.

Section Comm 82.70 is being created to specify treatment standards for plumbing systems based on specific uses. These standards apply to wastewater treatment devices and drinking water treatment devices.

Proposed changes to ch. Comm 90, design and construction of public swimming pools, relate to modifying terms for slides and water attractions [s. Comm 90.03] as well as creating or modifying sections which outline the process for construction inspection of public pools and water attractions. Minor changes throughout modify the term water recreation attraction to be consistent with state Statutes as water attractions.

5. Reason for the proposed rule(s).

The proposed rules have been developed in order to bring the state plumbing code up-to-date with current installation practices and methods, as well as adopting the most current standards, materials and technology used in the industry.

Fiscal Estimate Worksheet — 2001 Session
 Detailed Estimate of Annual Fiscal Effect

Original Updated
 Corrected Supplemental

LRB Number	Amendment Number if Applicable
Bill Number	Administrative Rule Number Comm 2, 34, 81, 82, 84 & 90

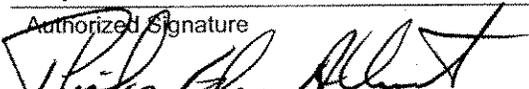
Subject
 Wisconsin Uniform Plumbing Code, Fees, Amusement Rides, and the Design and Construction of Public Swimming Pools

One-time Costs or Revenue Impacts for State and/or Local Government (do not include in annualized fiscal effect):

Annualized Costs:		Annualized Fiscal Impact on State Funds from:	
		Increased Costs	Decreased Costs
A. State Costs by Category			
State Operations — Salaries and Fringes		\$ 0	\$ - 0
(FTE Position Changes)		(0.00 FTE)	(- 0.00 FTE)
State Operations — Other Costs		0	- 0
Local Assistance		0	- 0
Aids to Individuals or Organizations		0	- 0
Total State Costs by Category		\$ 0	\$ - 0
B. State Costs by Source of Funds			
		Increased Costs	Decreased Costs
GPR		\$ 0	\$ - 0
FED		0	- 0
PRO/PRS		45,000	- 0
SEG/SEG-S		0	- 0
		Increased Revenue	Decreased Revenue
State Revenues	Complete this only when proposal will increase or decrease state revenues (e.g., tax increase, decrease in license fee, etc.)		
GPR Taxes		\$ 0	\$ - 0
GPR Earned		0	- 0
FED		0	- 0
PRO/PRS		45,000	- 0
SEG/SEG-S		0	- 0
Total State Revenues		\$ 45,000	\$ - 0

Net Annualized Fiscal Impact

	State	Local
Net Change in Costs	\$ 45,000	\$ 0
Net Change in Revenues	\$ 45,000	\$ 0

Prepared By: Lynita Docken	Telephone No. 608-785-9349	Agency Commerce
Authorized Signature 	Telephone No.	Date (mm/dd/ccyy) 01/02/02

INITIAL REGULATORY FLEXIBILITY ANALYSIS

Department of Commerce

RULE NO.: Chs. Comm 2, 34, 81, 82, 84 and 90

RELATING TO Wisconsin Uniform Plumbing Code; Fees; Amusement Rides; and
Design and Construction of Public Swimming Pools

1. Types of small businesses that will be affected by the rules.

Portions of this rule revision incorporate changes to plumbing designs and installations for various facilities or buildings, such as mobile home parks, campgrounds, health-care facilities, including CBRFs and nursing homes, and water treatment devices.

- The small CBRFs will have more options than are currently available to supply safe water to their patients.
- There will be time-savings for the property owner as the person installing may submit for review of the plans for private water mains.
- The proposed rules for the installation of water treatment devices will allow for the industry standard materials to be installed and may save money for the installer and customer.
- The rules for water treatment and the options for water reuse may open new markets for small businesses.

2. Reporting, bookkeeping and other procedures required for compliance with the rules.

The requirement for the submission of plans for water treatment systems designed to treat nonpotable water for additional use may increase plan submittals in the future.

3. Types of professional skills necessary for compliance with the rules.

All of the proposed rules require that professionals (master plumbers, journeymen, etc.) install the systems except for the installation of plumbing in a single family home, owned and occupied by the person installing the plumbing.

**NOTICE
of
ENVIRONMENTAL ASSESSMENT
Department of Commerce**

Rule No.: Chs. Comm 2, 34, 81, 82, 84 and 90

Relating to: Wisconsin Uniform Plumbing Code; Fees; Amusement Rides; and
Design and Construction of Public Swimming Pools.

Notice is hereby given that the Department has prepared a preliminary Environmental Assessment (EA) on the proposed rules. The preliminary recommendation is a finding of no significant impact. Copies of the preliminary EA are available from the Department on request and will be available at the public hearings. Requests for the EA and comments on the EA should be directed to:

Jean M. MacCubbin
Division of Administrative Services
Department of Commerce
P.O. Box 2689
Madison, Wisconsin 53701-2689
Telephone (608) 266-0955
or TTY (608) 264-8777

Written comments will be accepted until: February 27, 2002.



State of Wisconsin \ Department of Commerce

DEPARTMENT OF COMMERCE

HEARING DRAFT of PROPOSED RULES

Rule No.:

Chs. Comm 2, 34, 81, 82, 84 and 90

Relating to:

**Wisconsin Uniform Plumbing Code; Fees;
Amusement Rides; and Design and Construction of
Public Swimming Pools**

STATE OF WISCONSIN
DEPARTMENT OF COMMERCE

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The Wisconsin Department of Commerce proposes an order to:

repeal Comm 34.50 and Subch. VIII; Comm 82.20(1)(b)2.; Comm 82.20(4)(b)4. Note; Comm 82.31(12)(d) Note 2.; Comm 82.33(8)(a) 2.; Comm 82.34(3)(g); Comm 82.40(3)(e); Comm 82.50 Tables 22, 23, 24, 26 and 27; Comm 82.51 Table 82.51; Comm 84.30 Tables 84.30-7 and 84.30-10; Comm 84.30(3)(d); and Comm 84.40(6)(b)4.;

renumber Comm 34.55 Subch. IX as Subch. VIII; Comm 82.03 as 82.03(1); Comm 82.20(1)(b) 1. as 82.20(1)(b)2.; Comm 82.20(1)(b)(intro.) as 82.20(1)(b)1.; Comm 82.20(4)(c) to (e) as 82.20 (4)(b) to (d); Comm 82.20 (13) as 82.20 (14); Comm 82.33 (11)(b) 3. as 82.30(11)(b) 3. a.; Comm 82.30 (11)(c) 3.b. and c. as 82.30 (11)(c) 3.c. and d.; Comm 82.33(8)(a) 1. as 82.33(8)(a); Comm 82.33(10) as 82.33(10)(a); Comm 82.34(3)(a) to (f) as 82.34(3)(b) to (g); Comm 82.34(3)(h) as 82.34(3)(g); Comm 82.37(2)(g) as 82.37 (2)(h); Comm 82.40(3)(f) as 82.40(3)(e); Comm 82.40(8)(b) 4. to 8. as 82.40 (8)(b) 3. to 7.; Comm 82.41(5)(i) to (L) as 82.41(h) to (k); Comm 84.30 Tables 84.30-8, 84.30-9, and 84.30-9m as Tables 84.30-7, 84.30-8 and 84.30-9; Comm 84.40(6)(b) 5. as 84.40(6)(b)4.; and Comm 84.30(3)(e) and (f) as 84.30(3)(d) and (e);

renumber and amend Comm 82.33(9)(a)2. as 82.33(9)(a)2.a.; Comm 82.35(3)(g) as 82.35(3)(g) 1.; Comm 82.37(2)(g) as 82.37(2)(h); Comm 82.40(3)(a) as 82.40(3)(a)1.; Comm 84.30 Tables 84.30-8, 84.30-9 and 84.30-9m as Table 84.30-7, 84.30-8 and 84.30-9; Comm 84.30 Table 84.30-11 as Table 84.30-10; and Comm 84.30(3)(e) and (f) as 84.30(3)(d) and (e);

amend Comm 2.64 Table 2.64-1(partial); Comm 2.68(title)(1) and (2); Comm 2.68 Table 2.68-1 (title); Comm 81.01(7e), (42), (44), (46), (56), (80), (84), (90e), (134), (147), (178), (186), (193), (195), (210), (245), (246), (247), and (276); Comm 81.20 Tables 81.20-3e, 81.20-5, 81.20-8 and 81.20-11; chapter Comm 82 (title); Comm 82.01; Comm 82.10(1), (6), (7), (8), and (10); Comm 82.20(title) and (1); Comm 82.20 Tables 82.20-1 and 82.20-2; Comm 82.20(4)(b); Comm 82.21(1)(b) 4. b. and (1)(d) 8. b.; Comm 82.30 Tables 82.30-1, 82.30-2 and 82.30-3; Comm 82.30(4)(d) 5.; Comm 82.30(5)(b) 2.b. and (c)2.; Comm 82.30(10)(a) 2. and 4.b.; Comm 82.30(11)(b) 1. a.; Comm 82.30(11) (c) 2. a. to c.; Comm 82.30(11)(c) 3. (intro.); Comm 82.30(11)(d); Comm 82.30(11)(g)2.; Comm 82.30(12) (f)(intro.) and 1.; Comm 82.30 Tables 82.30-5 and 82.30-6; Comm 82.31(11)(a); Comm 82.31(12)(intro.) and (a); Comm 82.31(13)(c) 1.; Comm 82.31(17)(a) 1. a. and b.; Comm 82.32(3)(c) 2. Note and (4)(b) 1. b.; Comm 82.33(5)(a) 2. and (7)(b); Comm 82.33(9)(c) 1. b.; Comm 82.33(9)(e) and (g) 6.; Comm 82.34(3)(intro.); Comm 82.34(6)(a); Comm 82.34(14)(b); Comm 82.35(3)(a) and (d)1.; Comm 82.36 Table 82.36-4; Comm 82.36(5)(e), Comm 82.36(10), (11)(a) 3. and (12); Comm 82.36(14) (a) and (b); Comm 82.36(15)(a) and (b); Comm 82.37 (title); Comm 82.40(3)(b)1.; Comm 82.40(4)(c) 1. b.; Comm 82.40 Tables 82.40-1 and 82.40-2; Comm 82.40(7)(d) 1. a. and b. and (h) 1. a. and b.; Comm 82.40(7); Comm 82.40(8)(d)4.; Comm 82.40(8)(g); Comm 82.41(3)(intro.) and (5)(a) and Tables 82.41-1 and 82.41-2; Comm 82.60 Table 82.60; Comm 84.10 Table 84.10; Comm 84.11 Table 84.11 (partial); Comm 84.15; Comm 84.20(5)(n) 2.; Comm 84.30(2)(intro.); Comm 84.30 Tables 84.30-1, 84.30-2, 84.30-3, 84.30-4 and Note, 84.30-5, 84.30-6; Comm 84.30 (4)(f) 2. a.; Comm 84.30(5)(a) and (d); Comm 84.40(1)(c) 1. to 4.; Comm 84.40(6)(b)(intro.) 1.; Comm 84.40(8)(d) and (17)(d) 2.; Comm 61 Subchapter III (title); Comm 90.01; Comm 90.04(5)(a); Comm 90.08(8)(b)4.; Comm 90.10(2); Comm 90.11(3)(a); Comm 90.12(1)(a); and Comm 90.20(1);

repeal and recreate Comm 81.01(152), (154) and (249); Comm 81.20; Comm 82.20(4)(c); Comm 82.21(2)(d); Comm 82.30(11)(a)2.; Comm 82.30(12)(f)2.; Comm 82.31 Table 82.31-5; Comm 82.32(3)(c) 1.; Comm 82.32(4)(b)2.; Comm 82.33(8)(c) and (d); Comm 82.33(9)(b), (d) and (i); Comm 82.34(1), (2), (4)(a) and (8); Comm 82.35(5)(a)1.; Comm 82.36(3); Comm 82.36(13)(a)2; Comm 82.36(15)(a) and (b); Comm 82.40(3)(d) 1. a. and b.; Comm 82.40 Tables 82.40-4 to 82.40-11; Comm 82.40(8)(c); Comm 82.50; Comm 82.51; Comm 84.30(1)(intro.);

create Comm 2.645; Comm 81.01(7m), (51m), (56e) and Note, (61m), (62m), (65m), (72e), (90m) and Note, (108m), (160m); (187e), (213e) and Note, (214m) and Note, (265e) and Note, (273e) and (277e); Comm 82.015; Comm 82.03 (2); Comm 82.10(14); Comm 82.20(1)(b)1. Note; Comm 82.20(1)(c); Comm 82.20 (4)(b) 2. Note; Comm 82.20(13); Comm 82.21(1)(e); Comm 82.30(4)(d) 5. Note; Comm 82.30(8)(b) 2. b. and (c) 2. Notes; Comm 82.30(10)(b) 2. d. and (b) 3. Note; Comm 82.30(10)(c) and (d); Comm 82.30(11)(b) 3. b., Comm 82.30(11)(c) 2. e.; Comm 82.30(11)(c) 3. b. and Note; Comm 82.30(11)(d) Note; Comm 82.30(12)(e) Note; Comm 82.30 Figure 82.30-1 (title); Comm 82.31(14)(j); Comm 82.32(3)(c) 1. Note; Comm 82.32(4)(b)1. d.; Comm 82.33(8)(d) Note; Comm 82.30(9)(a) 2. b.; Comm 82.33(9)(c)1. c.; Comm 82.30(11)(d) Note; Comm 82.33 (9)(k); Comm 82.33(10)(a) Note and (b); Comm 82.34(3)(a); Comm 82.34(5)(b) Note; Comm 82.34(14)(b) 3.; Comm 82.35(3)(g) 2. and (m); Comm 82.36(3) Table 82.36-1; Comm 82.36(11)(a) 3. Note; Comm 82.36(14)(b) Note; Comm 82.37(2)(g); Comm 82.37(3); Comm 82.40(3)(a)2.; Comm 82.40(3)(c) 3.; Comm 82.40(3)(d)1.h.; Comm 82.40 (5)(f) and Note; Comm 82.40(7)(f) 3. and (h) 1. c.; Comm 82.40(8)(b) Note; Comm 82.40(8)(d) 5. and 6.; Comm 82.50 Table 82.50-1; Comm 82.70 Subch. VII (title) and Comm 82.70 and Table 82.70-1.; Comm 84.30(1)(f) and (2)(j); Comm 84.30 Table 84.30-11; Comm 84.30(4)(e) 2. Note and (4)(i); Comm 84.30(5)(d) 8.; Comm 84.40(17)(f) and (19); Comm 61.39; Comm 90.03(20)(a) and (b); Comm 90.04(6) and (7); and Comm 90.20(4) and Notes, relating to the Wisconsin Uniform Plumbing Code, Fees; Amusement Rides; and Design and Construction of Public Swimming Pools.

Analysis of Proposed Rules

Statutory authority: ss. 101.145, 101.19 (1) (b); 101.60, 101.63 (1) and (2), 101.70, 101.73 (1), 145.02 (2), 145.26, and 167, Stats.

Statutes interpreted: ss. 145.02 (4), and 145.13, Stats.

Under s. 145.02, Stats., the Department of Commerce has the responsibility of safeguarding public health and the waters of the state relative to the construction, installation and maintenance of plumbing. One mechanism of the Department to fulfill this responsibility has been the promulgation of the state uniform plumbing code, chs. Comm 81 to 84.

This rule revision relates to various changes to chapters Comm 2, 34, 81, 82, 84 and 90 relating to the Wisconsin Uniform Plumbing Code; Fees; Amusement Rides; and Design and Construction of Public Swimming Pools

A proposed revision to ch. Comm 2, Table 2.64-1 is to include the fees for submittals involving use of alternate standards, designs for nonpotable water treatment systems and stormwater infiltration systems. Revisions to s. Comm 2.68 relate to fees for construction inspections for public pools by the department or its agents. A new section, s. Comm 2.645, is proposed to establish a fee for the registration of cross connection control devices or assemblies no longer required to be submitted for plan review.

Proposed revisions to ch. Comm 34, amusement rides, encompass deleting the section on waterslides, s. Comm 34.50, and modifying that language into s. Comm 90.20 (4).

Revisions to ch. Comm 81 include a number of definitions relating to health-care plumbing and cross connection control, as well as alternate plumbing systems. The definitions relating to mobile homes and mobile home parks have been revised to reflect current state Statutes. Also included are the adoption of national standards specifically recognizing the use of plastic materials and adoption of the most current copies of standards previously adopted by Commerce. Section Comm 81.20 is repealed and recreated to reflect current practice with regard to primary and alternate standards..

Chapter Comm 82, the design, construction, installation, supervision and inspection of plumbing, is proposed for a number of additions or revisions. The scope of this chapter is being revised to acknowledge that plumbing systems shall be maintained. Throughout ch. Comm 82, notes are proposed concerning plumbing setbacks to wells are as specified by the department of natural resources. Various minor revisions to chapter 82 will correct current errors and recognize current plumbing practices.

- Section Comm 82.10, basic plumbing principles are proposed to be updated to reflect changing philosophies within the plumbing industry, including:
 - Allowing recycling of wastewater in addition to the traditional holding, treatment and dispersal.
 - Changing the reference to the “efficient” transport of wastewater that is proposed to replace the language to “quickly” transport wastewater. Many systems require lower velocities to reduce turbulence and also to promote sedimentation of solids.
 - Adding to the basic plumbing principles the statutory mandate to protect the waters of the state.
- Changes to s. Comm 82.20 are proposed to eliminate plan review for cross connection control devices and assemblies, except for those installed in hospitals or health-care and related facilities [Table 82.20-1] and to establish the process for registration of these devices and assemblies [s. Comm 82.20 (13)].
- Section Comm 82.30 (11), insulation for building sewers, is being clarified and expanded to allow forming a box of polystyrene foam around the piping reflecting current practice.
- Section Comm 82.30 includes other revisions reflecting table format and standardizing terminology. In Table 82.30-1, the drainage fixture unit values (dfu) are expanded and revised to include additional fixtures. In addition, dfu values for health-care facilities are proposed to be incorporated in the table. Presently the number of water closets impact the load permitted on 3" diameter drain pipe; the proposed revision will eliminate this restriction. Sump and pump requirements are proposed to be revised to codify alternate approvals for homogenous units and expand requirements for exterior sumps. Another revision will require alarms to indicate failure of duplex units.
- Section Comm 82.20 (4) is being revised to eliminate the need for receipt of the water quality management (WQM) letter prior to plumbing plan approval. (Frequently project construction is started prior to receipt of this letter. In most cases the property has passed zoning approval and other building permitting requirements prior to the plumbing plan submittal.)
- Section Comm 82.31 includes amendments for clarifying various venting methods based on location of fixtures and dfu values of the fixture.
- Section Comm 82.32 includes a section to define requirements for campgrounds and exterior sanitary traps.
- Section Comm 82.33 is the subject of clarification for indirect waste piping as well as proper installation for residential dishwashers. Approved materials for these installations are included in ch. Comm 84. Revisions for receptors of indirect wastes will allow more options for acceptable receptors for wastewater from water treatment devices, furnaces, sterilizers and air conditioners. Requirements for the connection of dishwashing and clothes washing machines will be more consistent with national standards.
- Section Comm 82.34, revisions to the requirements for the installation of garage catch basins and interceptors are proposed; these revisions will clarify current policy statements and interpretations.
- Sections Comm 82.35 and 82.36 are being proposed for changes relating to the discharge and dispersal to drain systems.

- Section Comm 82.37, requirements for campground plumbing installations are included in the proposal. Currently no requirements are codified. This section would now include a separate section on water supply and drain systems for campgrounds.
- Section Comm 82.38 and Table 82.38-1 are being created to list the allowable discharge points for drinking fountains, iron filters, water softeners and floor drains.
- Section Comm 82.40 contains allowances for the use of water in a plumbing system that do not comply with drinking water standards as specified in s. Comm 82.70. Other additions proposed for this section are specific to piping serving water treatment devices. Table 82.40-2 includes the revisions to the water supply fixture units for health-care fixtures. Tables 82.40-10 and 82.40-11 are created to reflect loading for various pipe materials.
- Section Comm 82.50, health care and related facilities, is repealed and recreated in its entirety to reflect contemporary health-care practices and facilities, such as hospitals, clinics, and operatories, community-based residential facilities and other inpatient and nursing facilities. The section provides language for safeguarding the water supply as well as reducing scalding for the end user. Table 82.50-1 is being created to specify spouts and actions of various fixtures when used in health care facilities.
- Section Comm 82.51 regarding water supply, and drain and vent systems for mobile home parks is revised in total for better organization and clarification.
- Section Comm 82.60, Table 82.60 is revised to include new materials and the pipe supports.
- Section Comm 82.70 is being created to specify treatment standards for plumbing systems based on specific uses. These standards apply to wastewater treatment devices and drinking water treatment devices.

Chapter Comm 84, plumbing products, is proposed to be revised in part. Tables 84.30-8 and 84.30-9 include footnotes to clarify under what water conditions copper tubing shall not be installed. A new Table 84.30-11 has been created for the listing of piping standards for fixture supply connectors and indirect waste piping/tubing when used with point-of-use water treatment devices. Terminology has been updated in these tables to reflect use of the materials for POWTS.

Proposed changes to ch. Comm 90, design and construction of public swimming pools, relate to modifying terms for slides and water attractions [s. Comm 90.03] as well as creating or modifying sections which outline the process for construction inspection of public pools and water attractions. Minor changes throughout modify the term water recreation attraction to be consistent with state Statutes as water attractions.

The proposed rule revisions were developed with the assistance of the Plumbing Advisory Code Council. This Council consists of the following individuals: Thomas Boehnen, American Society of Plumbing; Rudy Petrowitsch, American Society of Sanitary Engineers; Gary Hamilton/Jack Ellinger, State AFL-CIO; Gary Kowalke, plumbing contractors; Mark Krowski, City of Milwaukee; Jeff Kuhn, Plumbing and Mechanical Contractors of SE Wisconsin; Clint McCullough, Madison Contractors Association; Bob Netzler, League of Wisconsin Municipalities; Joe Zoulek, Wisconsin Association of Plumbing, Heating, Cooling Contractors, Inc.; Dave Viola, Plumbing Manufacturers Institute; Dale Schlieve, WI Society of Professional Designers of Engineering Systems, Inc.; and Gene Shumann, plumbing designers.

SECTION 1. Comm 2.64 Table 2.64-1 (partial) is amended to read:

Table 2.64-1 (partial)
Plan Examination Fees for Plumbing Systems

20. Alternate standards	\$400.00 per system
21. Water or wastewater treatment systems, other than POWTS, designed to achieve compliance with Table 82.70-1	Amount as specified in s. Comm 2.04 (1)
22. Stormwater infiltration systems	\$100.00 per system***

** Note: Any additional fees will be charged at plan determination.

*** Note: This fee is in addition to building storm and clear water.

*** * not related to any thing*

SECTION 2. Comm 2.645 is created to read:

Comm 2.645 Cross connection control device or assembly registration. A registration fee of \$125.00 per device or assembly shall be submitted to the department in accordance with s. Comm 82.20 (1) (c).

SECTION 3. Comm 2.68 (title) and (1) is amended to read:

Comm 2.68 Swimming Public Swimming pool and whirlpool water attraction plan review and inspection fees. (1) Plan examination and inspection fees for public swimming pools and water attractions shall accompany plans and specifications when submitted to the department for review. If the department determines, upon review of the plans, that inadequate fees were received, the necessary additional fees shall be received by the department prior to plan approval.

SECTION 4. Comm 2.68 (2) is amended to read:

Comm 2.68 (2) Except as provided in sub. (3), plan examination and inspection fees for the construction or modification of public swimming pools and water attractions shall be as listed in Table Tables 2.68-1 and 2.68-2.

SECTION 5. Comm 2.68 Table 2.68-1 (title) is amended to read:

**Table 2.68-1
Plan Review and Inspection Fees For Public Swimming Pools and Water Attractions
Not Located in Municipalities That Perform Construction Inspections**

Pool Type or Water Attraction	Fee		
	Type of Review		
	Initial Construction	Modification	Revision to Previously Approved Plans
Public Swimming Pool, gutter type	\$600.00 900.00	\$200.00 500.00	\$120.00
Public Swimming Pool, skimmer type	\$450.00 750.00	\$200.00 500.00	\$120.00
Water Attraction	\$600.00 900.00	\$200.00 500.00	\$120.00
Public Whirlpool	\$450.00 750.00	\$200.00 500.00	\$120.00
Alternate and Experimental Design	\$750.00 1050.00	\$375.00 675.00	\$150.00

SECTION 6. Comm 2.68 Table 2.68-2 is created to read:

**Table 2.68-2
Plan Review Fees For Public Swimming Pools and Water Attractions
Located in Municipalities That Perform Construction Inspections**

Pool Type or Water Attraction	Fee		
	Type		
	Initial Construction	Modification	Revision to Previously Approved Plans
Public Swimming Pool, gutter type	\$600.00	\$200.00	\$120.00
Public Swimming Pool, skimmer type	\$450.00	\$200.00	\$120.00
Water Attraction	\$600.00	\$200.00	\$120.00
Public Whirlpool	\$450.00	\$200.00	\$120.00
Alternate and Experimental Design	\$750.00	\$375.00	\$150.00

SECTION 7. Comm 34.50 and Subch. VIII are repealed.

SECTION 8. Comm 34.55 Subch. IX is renumbered as Subch. VIII.

SECTION 9. Comm 61 Subchapter III (title) is amended to read:

Comm 61 (title) Subchapter III – Plan Review and Related Functions

SECTION. 10. Comm 61.39 is created to read:

Comm 61.39 Registration of cross connection control devices. Cross connection control devices to be installed in water-based fire protection systems shall be registered with the department in accordance with ch. Comm 82.

SECTION 11. Comm 81.01 (7e) is amended to read:

Comm 81.01 (7e) "Alternate plumbing system" means a type of plumbing system designed in such a manner that valid and reliable data shall demonstrate to the department that the plumbing system is in compliance with the intent of chs. Comm ~~82 and 81 to 84~~ *82 and 81 to 84*

SECTION 12. Comm 81.01 (7m) is created to read:

Comm 81.01 (7m) "Ambulatory surgery center" means a health care facility that accepts federal funding in accordance with 42 CFR 416 of the federal register for health care finance and where 4 or more individuals that undergo a surgical procedure for which federal reimbursement is based.

SECTION 13. Comm 81.01 (42), (44) and (46) are amended to read:

Comm 81.01 (42) "Building drain, storm" means a building drain which conveys storm water ~~wastes~~ or clear water ~~wastes~~, or both.

(44) "Building sewer" means that part of the drain system not within or under a building which conveys its discharge to a public sewer, private interceptor main sewer, private onsite wastewater treatment system or other point of ~~disposal~~ discharge or dispersal.

(46) "Building sewer, storm" means a building sewer which conveys storm water ~~wastes~~ or clear water ~~wastes~~, or both.

SECTION 14. Comm 81.01 (51m) is created to read:

Comm 81.01 (51m) "Campsite receptor" means the vertical drain piping and trap combination that receives wastewater from recreational vehicles.

SECTION 15. Comm 81.01 (56) is amended to read:

Comm 81.01 (56) "Clear water ~~wastes~~" means liquids wastewater other than storm water, having no impurities or where impurities are below a minimum concentration considered harmful by the department, including but not limited to noncontact cooling water and condensate drainage from refrigeration compressors and air conditioning equipment, drainage of water used for equipment chilling purposes and cooled condensate from steam heating systems or other equipment.

SECTION 16. Comm 81.01 (56e) and Note is created to read:

Comm 81.01 (56e) "Clinic sink" means a fixture having an integral trap in which the upper portion of a visible trap seal provides a water surface and flushing rim is provided such that water cleanses the interior surface.

Note: This fixture has flushing and cleansing characteristics similar to a water closet. A clinic sink may also be referred to as a clinic service sink, a bedpan washing sink or a flushing rim sink.

SECTION 17. Comm 81.01 (61m), (62m) and (65m) are created to read:

Comm 81.01 (61m) "Containment" means the installation of a cross connection control method, device or assembly to prohibit the flow of contamination from a building or facility into a water supply system.

(62m) "Continuous pressure" means a pressure greater than atmospheric and exerted for a period of more than 12 hours.

(65m) "Cross connection control assembly" means a testable backflow preventer consisting of an arrangement of components.

SECTION 19. Comm 81.01 (72e) is created to read:

Comm 81.01 (72e) "Dfu" means drainage fixture unit.

SECTION 20. Comm 81.01 (80) and (84) are amended to read:

Comm 81.01 (80) "Double check detector assembly backflow preventer" means a type of a double check backflow prevention assembly which includes a parallel flow meter to indicate leakage or unauthorized use of water downstream of the assembly. The terms "DC detector" and "double check detector valve type backflow preventer" have the same meaning as double check detector backflow preventer. ~~The terms "DC detector" and "double check detector valve type backflow preventer" have the same meaning as double check detector backflow preventer.~~

(84) "Effluent" means liquid discharged from a POWTS treatment component process, device, appurtenance or piping system.

SECTION 21. Comm 81.01 (90e) is amended to read:

Comm 81.01 (90e) "Experimental plumbing system" has the same meaning as experimental system as specified in ~~specified in sub. (91).~~

SECTION 22. Comm 81.01 (90m) and Note and (108m) are created to read:

Comm 81.01 (90m) "Exam sink" means a plumbing fixture used for hand washing in health care and related facilities.

Note: An exam sink may also be referred to as a treatment sink.

(108m) "Foundation drain" means a subsoil drain that serves the area of the foundation of a building or facility.

SECTION 23. Comm 81.01 (134) and (147) are amended to read:

Comm 81.01 (134) "Infiltrative surface" means the plane within a ~~POWTS~~ treatment or dispersal component at which effluent is applied to in situ soil or engineered soil.

(147) "Low hazard" means a situation where the water supply system could be contaminated with a nontoxic substance so as to alter the quality of the water making the water unsuitable for the designated use.

SECTION 24. Comm 81.01 (152) and (154) are repealed and recreated to read:

Comm 81.01 (152) "Mobile home" has the meaning given in s. 66.0435 (1) (d), Stats.

Note: Section 66.0435 (1) (d), Stats., reads: "Mobile home" is that which is, or was as originally constructed, designed to be transported by any motor vehicle upon a public highway and designed, equipped and used primarily for sleeping, eating and living quarters, or is intended to be so used; and includes any additions, attachments, annexes, foundations and appurtenances.

(154) "Mobile home park" has the meaning given in s. 66.0435 (1) (e), Stats.

Note: Section 66.0435 (1) (e), Stats., reads: "Mobile home park" means any plot or plots of ground upon which 2 or more units, occupied for dwelling or sleeping purposes are located, regardless of whether a charge is made for the accommodation gross fee by a fraction the numerator of which is the number of spaces in the park in a municipality and the denominator of which is the entire number of spaces in the park.

SECTION 25. Comm 81.01 (160m) is created to read:

Comm 81.01 (160m) "Noncontinuious pressure" means a pressure greater than atmospheric and exerted for a period of no more than 12 hours. *sp.*

SECTION 26. Comm 81.01 (178) is amended to read:

Comm 81.01 (178) "Plumbing fixture" means a receptacle or device which meets at least one of the following:

(a) Is either permanently or temporarily connected to the water distribution system of the premises, and demands a supply of water from the system;

(b) Discharges ~~used water, waste materials, or sewage~~ wastewater or waste materials either directly or indirectly to the drain system of the premises; ~~or.~~

SECTION 27. Comm 81.01 (186) is amended to read:

Comm 81.01 (186) "POWTS treatment component" means a device or method that is intended to reduce the contaminant load of domestic wastewater.

SECTION 28. Comm 81.01 (187e) is created to read:

Comm 81.01 (187e) "Prefabricated sump and pump system" means a simplex pump and sump ~~combination~~ designed as a homogenous unit. *combined* *H.C.?*

SECTION 29. Comm 81.01 (193), (195) and (210) are amended to read:

Comm 81.01 (193) "Private interceptor main sewer" means a privately-owned sewer serving 2 or more buildings and not directly controlled by a public authority part of the municipal sewer system.

(195) "Private water main" means a privately-owned water main serving 2 or more buildings and not directly controlled by a public authority part of the municipal water system.

(210) "Safing" means a membrane or material installed a pan or other collector placed beneath a fixture to prevent leakage from escaping to the floor, ceiling or walls.

SECTION 30. Comm 81.01 (213e) and Note, and (214m) and Note are created to read:

Comm 81.01 (213e) "Scrub sink" means a plumbing fixture used for hand and arm washing prior to surgery or other medical procedures.

Note: A scrub sink may also be referred to as a surgeon washup sink.

(214m) "Service sink" means a fixture designed to be used for building or facility maintenance.

Note: As service sink may also be referred to as a mop sink, mop basin or janitor's sink.

SECTION 31. Comm 81.01 (245), (246) and (247) are amended to read:

Comm 81.01 (245) "Storm sewer" means a pipe, other than a pipe located inside a building, that carries storm water any of the following: storm water, surface water, groundwater and or clear water wastes.

(246) "~~Storm water wastes~~ Storm water" means ~~the wastewater collected from a~~ precipitation event.

(247) "Subsoil drain" means that part of a drain system ~~which that conveys the ground groundwater~~ or seepage water from the footings of walls or below the basement floor under buildings to the storm sewer or other a point of disposal discharge or dispersal.

SECTION 32. Comm 81.01 (249) are repealed and recreated to read:

Comm 81.01 (249) "Sump pump" means an automatic device designed to elevate storm water, groundwater or clear water and located in a sump, pit or low point.

SECTION 33. Comm 81.01 (265e) and (273e) are created to read:

Comm 81.01 (265e) "Vacuum breaker tee" means an assembly of fittings designed to eliminate the possibility of back siphonage in a system by allowing air to enter through a tee fitting.

(273e) "Washer sanitizer" means a plumbing appliance used for washing and disinfecting equipment.

SECTION 34. Comm 81.01 (276) is amended to read:

Comm 81.01 (276) "Wastewater" means clear water ~~wastes~~, storm water ~~wastes~~, domestic wastewater, industrial wastewater, sewage or any combination of these.

SECTION 35. Comm 81.01 (277e) is created to read:

Comm 81.01 (277e) "Wastewater treatment device" means a device or method that is intended to reduce the contaminant load of wastewater.

SECTION 36. Comm 81.20 is repealed and recreated to read:
[Note to Revisor: The tables are not being repealed.]

Comm 81.20 Incorporation of standards by reference. (1) CONSENT. Pursuant to s. 227.21 (2), Stats., the attorney general and the revisor of statutes have consented to the incorporation by reference of the standards listed in sub. (3).

Note: Copies of the adopted standards are on file in the offices of the department, the secretary of state and the revisor of statutes. Copies of the standards may be purchased through the respective organizations listed in Tables 81.20-1 to 81.20-13.

(2) ALTERNATE STANDARDS. (a) Alternate standards that are equivalent to or more stringent than the standards referenced in this code may used in lieu of the referenced standards when approved by the

department or if written approval is issued by the department in accordance with sub. (b).

1. Upon receipt of a fee and a written request, the department may issue an approval for the use of the alternate standard.

2. The department shall review and make a determination on an application for approval within 40 business days of receipt of all forms, fees and documents required to complete the review.

Note: Fees for standards under this paragraph are listed in ch. Comm 2.

(b) Determination of approval shall be based on an analysis of the alternate standard and the standard referenced in this code, prepared by a qualified independent third party or the organization that published the standard contained in this code.

(c) The department may include specific conditions in issuing an approval, including an expiration date for the approval. Violations of the conditions under which an approval is issued shall constitute a violation of this code.

(d) If the department determines that the alternate standard is not equivalent to or more stringent than the referenced standard, the request for approval shall be denied in writing.

(e) The department may revoke an approval for any false statements or misrepresentations of facts on which the approval was based.

(f) The department may reexamine an approved alternate standard and issue a revised approval at any time.

(3) ADOPTION OF STANDARDS. The standards referenced in Tables 81.20-1 to 81.20-13 are hereby incorporated by reference into this chapter.

Note: The tables in this section provide a comprehensive listing of all of the standards adopted by reference in this code. For requirements or limitations in how these standards are to be applied, refer to the code section that requires compliance with the standard.

Note: For requirements or limitations in how these standards are to be applied, refer to the code section within chs. Comm 82 to 84 that requires compliance with the standard.

SECTION 37. Comm 81.20 Tables 81.20-3e (partial), 81.20-5 (partial), 81.20-8 and 81.20-11 (partial) are amended to read:

Table 81.20-3e (partial)

ASME		American Society of Mechanical Engineers 345 East 47th Street New York, New York 10017 Phone: (800) THE-ASME Web page: www.infocentral@asme.org
Standard Reference Number		Title
1e.	<u>A112.1.3-00</u>	<u>Air-gap Fittings for Use with Plumbing Fixtures, Appliances, and Appurtenances</u>

Table 81.20-5 (partial)

ASTM		American Society for Testing and Materials 100 Barr Harbor Drive West Conshohocken, Pennsylvania 19428-2959 Phone: (610) 832-9585 Web page: www.astm.org
Standard Reference Number		Title
7e.	A888-96 <u>A888-98</u>	<u>Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications, Specifications for</u>
15m.	<u>B813-93</u>	<u>Liquid and Paste Fluxes for Soldering Applications on Copper and Copper Alloy Tube, Specifications for</u>
15s.	<u>B828-98</u>	<u>Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings, Practice for</u>
16.	C4-97	Clay Drain Tile and Perforated Clay Drain Tile, Specification for
24h.	<u>C923-98</u>	<u>Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes, and Laterals, Specification for</u>
44.	D2666-96a	Polybutylene (PB) Plastic Tubing, Specification for
45.	D2672-96a	Joints for IPS PVC Pipe Using Solvent Cement, Specification for
57s.	<u>D3138-95</u>	<u>Solvent Cements for Transition Joints Between Acrylonitrile-Butadiene-Styrene (ABS) and Poly(Vinyl Chloride) (PVC) Non-Pressure Piping Components, Specifications for</u>
92.	<u>F1866-98</u>	<u>Poly (Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings, Specifications for</u>

Table 81.20-8

CISPI		Cast Iron Soil Pipe Institute 5959 Shallowford Road, Suite 419 Chattanooga, Tennessee 37421 Web page: www.cispi.org
Standard Reference Number	Title	
1 E1281-97	Crosslinked Polyethylene / Aluminum / Crosslinked (PEX-AL-PEX) Polyethylene Pressure Pipe	
2 301-97	Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications, Standard Specification for	
3 310-97	Coupling for Use in Connection with Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications, Specification for	

Table 81.20-11 (partial)

NSF		NSF International International 3475 Plymouth 789 Dixboro Road P.O. Box 130140 Ann Arbor, Michigan 48113-0140 Phone: (800) 673-6275 Web page: www.nsf.org
Standard Reference Number	Title	
1. Standard 14-90 14-99	Plastic Piping Compounds and Related Materials	

SECTION 38. Chapter Comm 82 (title) is amended to read:

Chapter Comm 82
DESIGN, CONSTRUCTION, INSTALLATION, SUPERVISION, MAINTENANCE AND INSPECTION OF PLUMBING

SECTION 39. Comm 82.01 is amended to read:

Comm 82.01 Scope. The provisions of this chapter apply uniformly to the design, construction, installation, supervision, maintenance and installation inspection of plumbing, including but not limited to sanitary and storm drainage, water supplies, storm water and sewage disposal for buildings.

SECTION 40. Comm 82.015 is created to read:

Comm 82.015 Purpose. Pursuant to s. 145.02, Stats., the purpose of this chapter is to provide that all buildings in this state, including buildings owned by the state or any political subdivision thereof, shall be safe, sanitary and such as to safeguard the public health and the waters of the state.

SECTION 41. Comm 82.03 is renumbered as Comm 82.03 (1).

SECTION 42. Comm 82.03 (2) is created to read:

Comm 82.03 (2) Pursuant to s 145.13, Stats., this chapter is uniform in application and a municipality may not enact an ordinance for the design, construction, installation, supervision, maintenance and inspection of plumbing which is more stringent than this chapter, except as specifically permitted by rule.

SECTION 43. Comm 82.10 (1), (6), (7), (8), and (10) are amended to read:

Comm 82.10 (1) Plumbing in connection with all buildings and facilities, public and private, intended for human occupancy, shall be installed and maintained in such a manner so as to protect the health, safety and welfare of the public or occupants and the waters of the state.

(6) Devices for heating ~~water~~ and storing ~~it~~ water in pressure vessels or tanks shall be so designed and installed so as to prevent dangers of explosion or overheating.

(7) Where plumbing fixtures exist in a building which is not connected to a public sewer system, suitable provision shall be made for treating, ~~and recycling, dispersing or holding the sewage and wastewater by a method of holding, or treatment and dispersal satisfactory to the department.~~

(8) Drain systems shall be designed, constructed, and maintained to conduct the ~~waste water~~ wastewater or sewage quickly efficiently from the fixture to the place of disposal, with velocities which will prevent clogging, fouling and the depositing of solids, and shall have adequate cleanouts ~~so arranged that the drain pipes may be readily cleaned.~~

(10) ~~The piping of a~~ A plumbing system shall be of durable material, free from defective workmanship, and designed and constructed to give satisfactory service for its reasonable expected life.

SECTION 44. Comm 82.10 (14) is created to read:

Comm 82.10 (14) Plumbing systems shall be designed, installed and maintained so as to protect the waters of the state.

SECTION 45. Comm 82.20 (title) and (1) are amended to read:

Comm 82.20 Plan review and approval cross connection control device or assembly registration. (1) GENERAL Plans and specifications shall be submitted to the department or to an approved agent municipality for review in accordance with pars. (a) and (b). All registrations for cross connection control devices or assemblies shall be submitted to the department in accordance with par. (c).

Note: A plan approval application form (SBD 6154) is available from the Safety and Buildings Division, P. O. Box 7162, Madison, WI 53707. The department forms required in this chapter are available from the Safety and Buildings Division at P.O. Box 7162, Madison, WI 53707-7162, or at telephone 608/266-3151 and 608/264-8777 (TTY), or at the Safety and Buildings' web site at www.commerce.state.wi.us.

SECTION 46. Comm 82.20 (1) (b) 2. ^{is} repealed.
^

SECTION 47. Comm 82.20 (1) (b) 1. is renumbered as Comm 82.20 (1) (b) 2. *check*

SECTION 48. Comm 82.20 (1) (b) (intro.) is renumbered as Comm 82.20 (1) (b) 1.

SECTION 49. Comm 82.20 (1) (b) 1. Note is created to read:

Comm 82.20 (1) (b) 1. Note: The number of plumbing fixtures to be submitted and reviewed by an agent municipality is a subject of local ordinances.

SECTION 50. Comm 82.20 (1) (c) is created to read:

Comm 82.20 (1) (c) Cross connection control device or assembly registration. The initial installation of each reduced pressure principle backflow preventer, back siphonage backflow vacuum breaker, reduced pressure detector backflow preventer, double check valve, double detector check valve, or pressure vacuum breaker, shall meet all of the following:

1. a. Except for the provisions under subpar. b., for initial installation in any building or facility, each device or assembly covered under this paragraph shall be registered with the department.

b. Plan review approval for a cross connection control device or assembly issued prior to [EFFECTIVE DATE ... REVISOR TO INSERT EFF. DATE] is considered in compliance with this paragraph.

2. For each device or assembly covered under this paragraph registration shall be submitted prior to the initial test.

SECTION 51. Comm 82.20 Tables 82.20-1 and 82.20-2 are amended to read:

Table 82.20-1
SUBMITTALS TO DEPARTMENT

<u>Type of Plumbing Installation</u>	
1.	All <u>Except for direct replacement, all plumbing, new installations, additions and alterations, regardless of the number of plumbing fixtures involved, to be installed in health care facilities hospitals, nursing homes and ambulatory surgery centers.</u> ^b
2.	Plumbing, new installations, additions and alterations involving 16 or more plumbing fixtures, to be installed in <u>connection with buildings owned by a metropolitan or sanitary sewer district.</u> ^a
3.	Plumbing, new installations, additions and alterations involving 16 or more plumbing fixtures, to be installed in <u>connection with buildings owned by the state.</u> ^a
4.	<u>Alternate and experimental plumbing systems.</u>
5.	<u>Controlled roof drainage systems.</u>
6.	Reduced pressure principle backflow preventers and reduced pressure detector backflow preventers.
7.	Pressure vacuum breaker assembly.
8.	Back siphonage backflow vacuum breaker.
5.	<u>Subsurface storm water or clearwater dispersal plumbing systems in connection with public buildings.</u>
6.	<u>Plumbing water treatment systems, other than POWTS, designed to treat water for compliance with Table 82.70-1.</u>

^aA water heater is. Water heaters, floor drains, storm inlets, roof drains and hose bibbs are to be counted as a plumbing fixture fixtures.

^bFor hospitals, nursing homes and ambulatory care surgery centers, registration for cross connection control devices as specified under s. Comm 82.20 (1) is included as a part of plan approval.

Table 82.20-2
SUBMITTALS TO DEPARTMENT OR AGENT
MUNICIPALITY

Type of Plumbing Installation	
1.	New 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 plumbing fixtures to be installed in connection with public buildings. ^{a,b}
2.	Grease interceptors to be installed for public buildings.
3.	Garage catch basins, carwash interceptors and oil interceptors to be installed for public buildings and facilities.
4.	Automatic car wash facilities.
5. 4.	Sanitary dump stations.
6-5.	Private Piping designed to serve as private water mains.
7-6.	Water supply systems and drain systems to be installed for mobile home parks and campgrounds. ^c
8-7.	Private Piping designed to serve as private interceptor main sewers greater than 4 inches in diameter when sized for gravity flow as specified in Table 82.30-1.
9. 8.	Chemical waste systems regardless of the number of plumbing fixtures involved. ^c

^aA water heater is. Water heaters, floor drains, storm inlets, roof drains and hose bibbs are to be counted as a plumbing fixture fixtures.

^bFor the purpose of plan submittal, public buildings do not include zero-lot-line row houses where each living unit is served by an individual water service and an individual building sewer.

^cOnly agent municipalities which are cities of the first class may review these types of installations.

SECTION 52. Comm 82.20 (4) (c) to (e) are renumbered as Comm 82.20 (4) (b) to (d).

and as ren.

SECTION 53. Comm 82.20 (4) (b) is amended to read:

Comm 82.20 (4) (b) All plans submitted for approval shall be accompanied by sufficient data and information for the department to ~~judge~~ determine if the installation and its performance will meet the requirements of ~~this chapter and ch. Comm 84~~ chs. Comm 81 to 84.

1. Information to accompany the plans shall include the location or address of the installation and the name of the owner.

2. ~~Plans~~ Except as provided in subd. 3., plans proposing the installation, creation or extension of a private sanitary building sewer or a sanitary private interceptor main sewer which is to discharge to a municipal treatment facility ~~shall~~:

~~a. Be accompanied by a letter from the appropriate designated planning or management agency indicating conformance with an approved areawide water quality management plan under ch. NR 121; and.~~

~~b. Not be approved, if the municipality is ineligible for sanitary sewer extension approvals under s. NR 110.05.~~

~~3. Except as provided in subd. 4., plans proposing the installation of a building sewer for new construction which is to discharge to a municipal treatment facility shall:~~

~~a. Be accompanied by a letter from either the appropriate designated management agency or sanitary district indicating conformance with an approved areawide water quality management plan; and.~~

~~b. Not may not be approved, if the municipality is ineligible for sanitary sewer extension approvals under s. NR 110.05.~~

43. Plans proposing the installation of a building sewer for new construction which is to discharge to a municipal treatment facility shall not be required to comply with subd. 2., if:

SECTION 54. Comm 82.20 (4) (b) 2. Note is created to read:

Comm 82.20 Note: For plans proposing the installation, creation or extension of a private interceptor main sewer which is to discharge to a municipal treatment facility, see also ch. NR 121.

SECTION 55. Comm 82.20 (4) (b) 4. b. Note is repealed.

SECTION 56. Comm 82.20 (4) (c) is repealed and recreated to read:

Comm 82.20 (4) (c) Plumbing plans and specifications for a plumbing system submitted for review and approval shall be signed in accordance with any of the following methods:

1. A Wisconsin registered architect, engineer or plumbing designer shall sign and seal or stamp all plans and accompanying specifications in accordance with ch. A-E 2.

2. A master plumber, master plumber restricted sewer, master plumber restricted appliance, utility contractor or a pump installer shall sign and date all plumbing plans and accompanying specifications for which the individual is responsible for the installation. Each sheet of plans and specifications submitted shall be signed and dated and shall include the valid Wisconsin license number of the individual responsible for the installation. Where more than one sheet is bound together into one volume, only the title sheet or index sheet shall be signed and dated by the individual responsible for the installation. The signed title or index sheet shall clearly identify all of the other sheets in the volume.

SECTION 57. Comm 82.20 (13) renumbered as Comm 82.20 (14).

SECTION 58. Comm 82.20 (13) is created to read:

Comm 82.20 (13) CROSS CONNECTION CONTROL REGISTRATION. (a) Registration, as specified in sub. (1) (c), shall be submitted in a format acceptable to the department.

Note: The forms required in this chapter are available from the Safety and Buildings Division, P.O. Box 7162, Madison, WI 53707-7162, or at telephone 608/266-3151 and 608/264-8777 (TTY), or at the Safety and Buildings' web site at www.commerce.state.wi.us.

(b) The form for registering cross connection control devices and assemblies with the department shall include at least all of the following information:

1. The building or facility name and address where the device or assembly is or will be installed.
2. The location of the cross connection control device or assembly within the building or facility.
3. A description of the cross connection control device or assembly including the size, model number, serial number and manufacturer.
4. The name of the owner or owner's agent submitting the registration form and contact information.

(c) Each registration form submitted shall be accompanied by the appropriate fee in accordance with s. Comm 2.645.

(d) Upon receipt of a completed registration form, the department shall issue written confirmation of registration including a department assigned identification number for each cross connection control device or assembly.

(e) Upon permanent removal or replacement of any reduced pressure principle backflow preventer, back siphonage backflow vacuum breaker, reduced pressure detector backflow preventer, pressure vacuum breaker, double check or double check detector, the owner shall notify the department, in writing using a format acceptable to the department.

SECTION 59. Comm 82.21 (1) (b) 4. b. is amended to read:

Comm 82.21 (1) (b) 4. b. When required by a municipality, the plumbing installation shall be subject to a final test conducted in accordance with par. (d) 78. ~~The final test shall be observed by the plumbing inspector.~~

SECTION 60. Comm 82.21 (1) (d) 8. b. is amended to read:

Comm 82.21 (1) (d) 8. b. The air test shall be made by attaching ~~an air compressor testing apparatus~~ a gauge to any suitable opening, and, after closing all other inlets and outlets ~~to the completed in the system,~~ forcing adding air into the system until a pressure equivalent to the gauge pressure of a one

inch water column exists. ~~This shall be accomplished by the use of~~ The pressure shall remain constant for the at least a 5-minute test period of inspection without the introduction of additional air.

SECTION 61. Comm 82.21 (2) (d) is repealed and recreated to read:

Comm 82.21 (2) (d) Plumbing reused. 1. Plumbing materials removed from a building or facility, if found to be in good condition, may be reused if such reuse is approved by the department or a local plumbing inspector. The owner of the building or facility in which the reused materials are to be installed shall provide written consent.

2. Water supply piping materials may only be reused when intended for uses having a higher degree of hazard than the previous use as specified in Table 82.70-1.

SECTION 62. Comm 82.30 Tables 82.30-1 (partial and footnotes), 82.30-2 (partial and footnotes) and 82.30-3 (partial and footnotes) are amended to read:

Table 82.30-1 (partial)
DRAINAGE FIXTURE UNIT VALUES
BY FIXTURE TYPE

Type of Fixture	Drainage Fixture Unit Value (dfu)	Trap Size Min. Minimum Diameter (in inches)
<u>Autopsy Table</u>	<u>h</u>	<u>h</u>
<u>Health Care Fixtures</u>		<u>f</u>
<u>Clinic sink</u>	<u>6</u>	<u>1 1/4</u>
<u>Exam/treatment sink</u>	<u>1</u>	<u>1 1/4</u>
<u>Sitz bath</u>	<u>2</u>	<u>1 1/2</u>
<u>Mobile Home</u>	<u>11</u>	<u>NA</u>
<u>Recreational Vehicle</u>	<u>4</u>	<u>4</u>
<u>Sinks,¹</u>		
<u>Breakroom (single compartment)</u>	<u>1</u>	<u>1 1/2</u>
.....		
<u>Fountain wash up, per station</u>	<u>1</u>	<u>1 1/2</u>
<u>Receptors of Indirect Wastes, gravity flow discharge</u>		
.....		
<u>1 1/4 inch receptor outlet diameter</u>	<u>1</u>	<u>1 1/4</u>

NA = not applicable.

^h Trap size corresponds to the size of the drain outlet. Use the dfu value of the receptor serving the autopsy table.

¹ Sinks not specified in this table shall be assigned 1 dfu for 1 1/4" tailpiece, 2 dfu for 1 1/2" tailpiece and 3 dfu for 2" tailpiece.

**Table 82.30-2
HORIZONTAL AND VERTICAL DRAIN PIPING**

Pipe Diameter (in inches)	Maximum Number of Drainage Fixture Units Which May Drain Through Any Portion of Horizontal and Vertical Drain Piping			
	Horizontal Drain Piping ^a	Vertical Drain Piping of 3 Branch Intervals or Less ^b	Vertical Piping in Drain Stacks of more than More Than 3 Branch Intervals ^b	
			Total Discharge from Side Connections into One Branch Interval	Total Discharge Through Any Portion
3	20 ^a	48 ^a	20 ^a	72 ^d

^cNot more than 2 water closets or similar flush action type fixtures of 4 or more drainage fixture units.

^dNot more than 2 water closets or similar flush action type fixtures of 4 or more drainage fixture units within each branch interval nor more than 6 flush action type fixtures on the stack.

**Table 82.30-3
BUILDING DRAINS, BUILDING SUBDRAINS, BUILDING SEWERS AND PRIVATE INTERCEPTOR MAIN SEWERS ^a**

Pipe Diameter (in inches)	Maximum Number of Drainage Fixture Units Which May Drain Through Any Portion of a Building Drain, Building Subdrain, Building Sewer or Private Interceptor Main Sewer			
	Pitch (inch per foot)			
	1/16	1/8	1/4	1/2
3	NP	36 ^a	42 ^a	50 ^a

Note: For further explanatory material see Appendix A-82.30 (4).

SECTION 63. Comm 82.30 (4) (d) 5. is amended to read:

Comm 82.30 (4) (d) 5. Private interceptor main sewers 8 inches or larger in diameter shall conform with the design flow criteria specified in ~~ch. s. NR 110.13.~~

K no

SECTION 64. Comm 82.30 (4) (d) 5. Note is created to read:

Comm 82.30 (4) (d) 5. Note: See Appendix A-82.30 (4) (d) for further explanatory material.

SECTION 65. Comm 82.30 (5) (b) 2. b. and (c) 2. are amended to read:

Comm 82.30 (5) (b) 2. b. The minimum pitch of building sewers 12 inches or larger in diameter shall conform with the minimum pitches specified for municipal sewers in s. NR 110.13-~~(2)(c).~~

(c) 2. The minimum pitch of private interceptor main sewers 8 inches or larger in diameter shall conform with the minimum pitches specified for municipal sewers in s. NR 110. 13-~~(2)(c).~~

SECTION 66. Comm 82.30 (5) (b) 2. b. Note is created to read:

Comm 82.30 (5) (b) 2. b. Note: See also s. Comm 82.30 (4) (d) 5 for further explanatory material.

SECTION 67. Comm 82.30 (5) (c) 2. Note is created to read:

Comm 82.30 (5) (c) 2. Note: See Appendix A-82.30 (4) (d) for further explanatory material.

SECTION 68. Comm 82.30 (10) (a) 2. is amended to read:

Comm 82.30 (10) (a) 2. Capacity. ~~The~~ Except as provided in pars. (c) and (d) , the minimum capacity of the sump shall be determined in accordance with the provisions of subd. 2. a. to e.

SECTION 69. Comm 82.30 (10) (b) 2. d. is created to read:

Comm 82.30 (10) (b) 2. d. Where duplex pumping equipment is installed, an audible or visual alarm system with a manual control reset shall be installed to indicate pump failure.

SECTION 70. Comm 82.30 (10) (b) 3. Note is created to read:

Comm 82.30 (10) (b) 3. Note: See Appendix A-82.30 (10) (b) 3. for velocity in relation to flow rate by various pipe sizes.

SECTION 71. Comm 82.30 (10) (b) 4. b. is amended to read:

Comm 82.30 (10) (b) 4. b. A With the exception of exterior sumps, a full flow check valve shall be installed in the discharge piping from each ejector or pump.

SECTION 72. Comm 82.30 (10) (c) and (d) are created to read:

Comm 82.30 (10) (c) Prefabricated pumps and sump systems. The minimum capacity of a prefabricated pump and sump system shall be determined in accordance with all of the following:

1. The water supply fixture unit (wsfu) method shall be used to determine peak input flow in gallons per minute. The peak input shall include all the fixtures that drain to the sump.
2. The capacity of the prefabricated pump and sump system shall be that which the pump designed by the manufacturer for a flow equivalent to the peak input flow.
3. The low water level shall be maintained in accordance with the pump manufacturer's requirements.

(d) *Exterior sumps.* The minimum capacity of exterior sumps shall be determined in

accordance with all of the following:

1. Peak input flow in gallons per minute shall be determined in accordance with either of the following:

- a. The water supply fixture unit (wsfu) method of all the fixtures that drain to the sump.
- b. The provisions as specified in s. Comm 83.43 (2) through (6).

2. In lieu of providing the duplex pumping equipment as specified in par. (b) 2., a one-day holding capacity may be provided above a high level alarm when installed on a simplex system.

SECTION 73. Comm 82.30 (11) (a) 2. is repealed and recreated to read:

Comm 82.30 (11) (a) 2. The building sewer serves buildings located on the same property and a document, which indicates the piping and distribution arrangement for the property and buildings, shall be recorded with the register of deeds no later than 90 days after installation.

SECTION 74. Comm 82.30 (11) (b) 1. a. is amended to read:

Comm 82.30 (11) (b) Building drains. 1. Elevation. a. All building drains shall be installed below the lowest floor levels on which fixtures may be installed if the public sewer, ~~septic tank~~ POWTS or private interceptor main sewer elevation permits.

SECTION 75. Comm 82.30 (11) (b) 3. is renumbered as Comm 82.30 (11) (b) 3. a.

SECTION 76. Comm 82.30 (11) (b) 3. b. is created to read:

Comm 82.30 (11) (b) 3. b. In any room containing the recessed or concealed portions of sterilizers located in health care or related facilities, at least one floor drain connecting to the drainage system shall be installed in a manner to adequately drain the entire floor area.

SECTION 77. Comm 82.30 (11) (c) 2. a. to c. is amended to read:

Comm 82.30 (11) (c) 2. 'Protection from frost.' a. Except as provided in subpars. c. ~~and d.~~ to e., a building sewer or private interceptor main sewer shall be protected from frost in accordance with subd. 3. in areas where the top of the building sewer or private interceptor main sewer is located less than 60 inches below a surface area from which snow will be cleared.

b. Except as provided in subd. 2. c. ~~and d.~~ to e., a building sewer shall be protected from frost in accordance with subd. 3. in areas where the top of the building sewer is located less than 42 inches below a surface area which snow will not be cleared.

c. Where a building sewer discharges to a ~~septic tank,~~ holding tank, or POWTS treatment tank or

grease interceptor, the portion of a building sewer which is within 30 feet from the connecting building drain and which is under a surface area from which snow will not be cleared shall not be required to be protected from frost.

SECTION 78. Comm 82.30 (11) (c) 2. e. is created to read:

Comm 82.30 (11) (c) 2. e. Where a building sewer is installed and not intended to receive wastewater during the period of November 15 to March 15, frost protection requirements shall not apply.

SECTION 79. Comm 82.30 (11) (c) 3. (intro.) is amended to read:

Comm 82.30 (11) (c) 3. 'Insulation for building sewers.' Where required by subd. 2. a. or b., building sewer insulation for frost protection shall be provided in accordance with one of the methods specified in subd. 3. a. to ed.

SECTION 80. Comm 82.30 (11) (c) 3. b. and c. are renumbered as Comm 82.30 (11) (c) 3. c. and d.

SECTION 81. Comm 82.30 (11) (c) 3. b. and Note are created to read:

Comm 82.30 (11) (c) 3. b. Extruded polystyrene foam insulation shall be installed using a box method. The 3-sided box shall be formed with 3 lengths of polystyrene foam insulation where the top of the box extends horizontally to the farthest edge of both vertical sides. The insulation shall be installed at or below a depth of at least 12 inches below finished grade and 6 inches above the top and 6 inches from each side of the building sewer. The minimum thickness of the foam insulation shall be determined from Figure 82.30-1 and Table 82.30-5.

Note: See Appendix A-82.30 (11) (c) for further explanatory material.

SECTION 82. Comm 82.30 (11) (d) and Note is amended to read:

Comm 82.30 (11) (d) Location limitations. Building drains and building sewers shall be separated from water wells by the following minimum distances:

1. Eight feet for gravity-flow building drains and building sewers of cast iron pipe;
2. ~~Eight feet for building drains and building sewers of plastic pipe;~~
3. 2. Twenty-five feet for building drains and building sewers of all other materials; and
pressurized sanitary building sewers.
4. ~~Twenty-five feet for all pressurized building drains and building sewers.~~

Note: See s. Comm 82.40 for provisions regarding the separation of water supply piping and building sewers and private interceptor main sewers.

SECTION 83. Comm 82.30 (11) (d) Note is created to read:

Comm 82.30 (11) (d) Note: See Appendix A-82.30 (11) (d) for further explanatory material. Section NR 812.08 may require additional setbacks.

SECTION 84. Comm 82.30 (11) (g) 2. is amended to read:

Comm 82.30 (11) (g) 2. Storm water and clear water connections. Except as provided in s. Comm 82.36 (3) ~~(b) 4.~~, storm drain piping and clear water drain piping may not discharge to a sanitary building drain which connects to a publicly owned treatment works.

SECTION 85. Comm 82.30 (12) (e) Note is created to read:

Comm 82.30 (12) (e) Note: See Appendix A-82.30 (11) (d) for further explanatory material. Section NR 812.08 may require additional setbacks.

SECTION 86. Comm 82.30 (12) (f) (intro.) and 1. are amended to read:

Comm 82.30 (12) (f) No private interceptor main sewer may pass through or under a building to serve another building, unless one of the following conditions ^{is} ~~are~~ met:

1. The private interceptor main sewer serves farm buildings ~~or~~^{is} farm houses, or both which are all located on one property, ~~or~~.

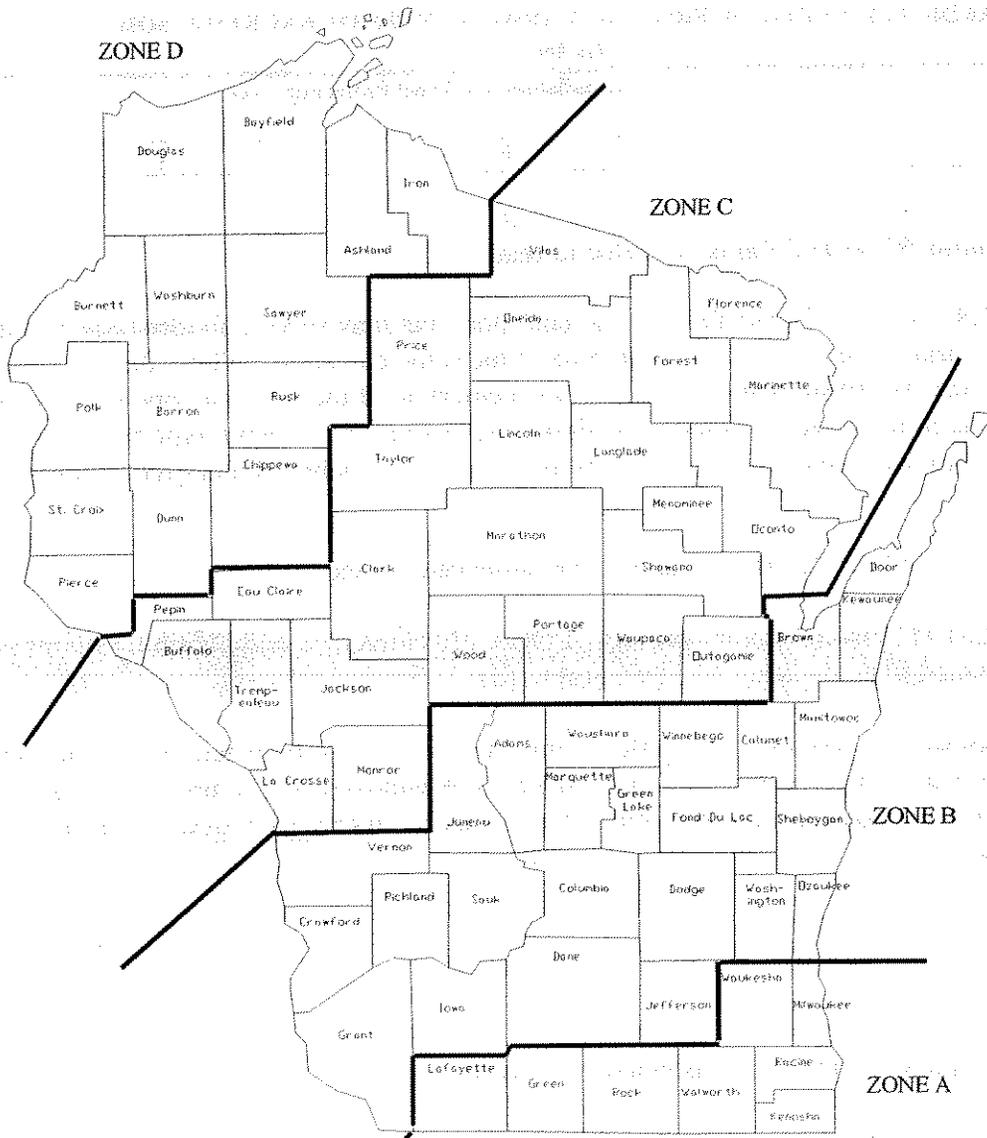
SECTION 87. Comm 82.30 (12) (f) 2. is repealed and recreated to read:

Comm 82.30 (12) (f) 2. The private interceptor main sewer serves buildings that are located on one property and a document, which indicates the piping and distribution arrangement for the property and buildings, shall be recorded with the register of deeds no later than 90 days after installation.

SECTION 88. Comm 82.30 Figure 82.30-1 (title) is created:

[Note to Revisor: Map is unchanged; a better copy is being submitted for publication.]

Figure 82.30-1. Frost protection zones.



SECTION 89. Comm 82.30 Tables 82.30-5 (partial) and 82.30-6 (partial) are amended to read:

Table 82.30-5 (partial)
MINIMUM THICKNESS OF INSULATION

Installation Site Frost Protection Zone	Extruded Polystyrene Foam (in inches)	Insulating Concrete (in inches)
-----------------------------------------------	------------------------------------------	------------------------------------

Table 82.30-6 (partial)
PREDICTED DEPTH OF FROST IN VARIOUS TYPES OF BACKFILL SOIL
(in feet)

Soil Type	Installation Site Frost Protection Zone			
	A	B	C	D

SECTION 90. Comm 82.31 (11) (a) is amended to read:

Comm 82.31 (11) (a) Vertical drains. A common vent may serve ~~2 fixture traps~~ fixtures where both fixture drains connect to a vertical drain at the same elevation. Where this connection is by means of a sanitary tee fitting with a side inlet, the centerline of the side inlet opening may not be below the centerline of the larger opening. The drain connection of a blowout type fixture or a kitchen sink served by a common vent may not be by means of a double sanitary tee fitting.

SECTION 91. Comm 82.31 (12) (intro.) and (a) are amended to read:

Comm 82.31 (12) Island fixture venting. LOOP VENTING. ~~Island plumbing~~ Plumbing fixtures may be vented in accordance with pars. (a) to (d).

(a) ~~Island plumbing fixtures~~ Wall outlet fixtures may be vented by extending an individual vent, or a common vent as high as possible under the fixture enclosure and returning the vent vertically downward and connecting ~~it~~ the vent to the fixture drain or branch drain by means of a wye pattern fitting.

SECTION 92. Comm 82.31 (12) (d) Note 2. is repealed.

SECTION 93. Comm 82.31 (13) (c) 1. is amended to read:

Comm 82.31 (13) (c) 1. No more than 2 wall outlet fixtures, each fixture with a drainage fixture unit value of one or less, may have their fixture drains connected ~~individually~~ into the individual vent, common vent, circuit vent or relief vent ~~thereby forming a wet vent.~~

SECTION 94. Comm 82.31 (14) (j) is created to read:

Comm 82.31 (14) (j) Vents for chemical basins. The size of vents serving chemical dilution or neutralizing basins shall be determined in accordance with Table 82.31-3 and based upon the number of drainage fixture units discharging into the basins.

SECTION 95. Comm 82.31 (17) (a) 1. a. and b. is amended to read:

Comm 82.31 (17) (a) Stacks. 1. A drain stack may serve as a combination drain and vent system for ~~identical~~ fixtures in accordance with subd. 1. a. to ~~ef~~.

a. The drain stack shall not serve more than 3 ~~identical~~ fixtures. Each fixture shall be located on a separate floor level.

b. The drain stack shall be limited to serving ~~kitchen sinks with or without food waste grinders or dishwasher connections within dwelling units, drinking fountains and lavatories~~ fixtures with a drainage fixture unit value of no greater than 2.0. A urinal may not discharge into the stack. The largest drainage fixture unit value served by the stack shall determine the stack size as specified in Table 82.31-5.

SECTION 96. Comm 82.31 Table 82.31-5 is repealed and recreated to read:

Table 82.31-5
STACK SIZING BY DFU VALUE

Drainage Fixture Unit (dfu) Value	Size of Stack (in inches)
0.5	1 ½
1.0	2
2.0	3

SECTION 97. Comm 82.32 (3) (c) 1. is repealed and recreated to read:

Comm 82.32 (3) (c) 1. A trap seal primer valve or other means of trap seal protection acceptable to the department shall be provided for a trap subject to seal loss due to evaporation.

SECTION 98. Comm 82.32 (3) (c) 1. Note is created to read:

Comm 82.32 (3) (c) 1. Note: Liquids acceptable to use for reducing trap seal evaporation include mineral oil, vegetable oil, propylene glycol and glycerin.

SECTION 99. Comm 82.32 (3) (c) 2. Note is amended to read:

Comm 82.32 (3) (c) 2. Note: A list of referenced standards is contained in ch. Comm ~~84~~ 81.

SECTION 100. Comm 82.32 (4) (b) 1. b. is amended to read:

Comm 82.32 (4) (b) 1. b. The vertical distance between the top of the fixture drain outlet of a pedestal ~~drinking fountain fixture, or a cuspidor or a drain receptor for a sanitary dump station~~ and the horizontal centerline of the trap outlet shall not exceed 60 inches.

SECTION 101. Comm 82.32 (4) (b) 1. d. is created to read:

Comm 82.32 (4) (b) 1. d. The vertical distance from the inlet to the horizontal centerline of the fixture drain for a campsite receptor or a receptor for a sanitary dump station may exceed 3 feet so as to permit the trap to be installed below the predicted depth of frost.

SECTION 102. Comm 82.32 (4) (b) 2. is repealed and recreated to read:

Comm 82.32 (4) (b) 2. 'Horizontal distance.' Except as provided in subd. 2. a. and b., the horizontal distance between the vertical centerline of a fixture drain outlet and the vertical centerline of the trap inlet shall not exceed 15 inches.

a. The horizontal distance for a pedestal drinking fountain shall not exceed 24 inches.

b. The horizontal distance for an exterior sanitary area drain or a residential garage floor drain discharging through an interior trap shall not exceed 25 feet.

SECTION 103. Comm 82.33 (5) (a) 2. is amended to read:

Comm 82.33 (5) (a) 2. All indirect waste piping draining a refrigerated food storage room, compartment or display case shall be provided with a trap in accordance with s. Comm 82.32 (4).

SECTION 104. Comm 82.33 (7) (b) is amended to read:

Comm 82.33 (7) (b) Air-break installation. The air-break between indirect waste piping or local waste piping and the receptor shall be accomplished by extending the indirect waste piping or local waste piping below the flood level rim of the receptor and terminating at an elevation above the trap outlet.

SECTION 105. Comm 82.33 (8) (a) 1. is renumbered as Comm 82.33 (8) (a).

SECTION 106. Comm 82.33 (8) (a) 2. is repealed.

SECTION 107. Comm 82.33 (8) (c) and (d) are repealed and recreated to read:

Comm 82.33 (8) (c) Local waste piping. Local waste piping may not receive discharge from another local waste pipe.

(d) *Other receptors.* A plumbing fixture may not be used as a receptor for indirect or local waste piping, except as provided in subs. 1. to 5.

1. The indirect waste piping of a portable dishwasher or water treatment device serving one or 2 outlets may discharge into a kitchen sink of a dwelling unit.

2. The indirect waste piping of an automatic clothes washer or water treatment device may discharge into a laundry tray.

3. The indirect or local waste piping from a cross connection control device or assembly, water treatment device, air conditioner, humidifier or furnace condensate may discharge into a 1 ½ inch-diameter or larger branch tailpiece.

4. The local waste piping from a water heater temperature and pressure relief valve, water treatment device, cross connection control device or assembly, sterilizer, or a furnace or air conditioner may discharge into the riser of a floor drain when installed in accordance with s. Comm 82.33 (7) (b).

5. The indirect or local waste piping from a water heater temperature and pressure relief valve, water treatment device, cross connection control device or assembly, or a furnace or air conditioner may discharge to a floor served by a floor drain so as not to create a health or safety hazard.

SECTION 108. Comm 82.33 (8) (d) Note is created to read:

Comm 82.33 (8) (d) Note: See Appendix A-82.33 (8) (a) to (d) for further explanatory material.

SECTION 109. Comm 82.33 (9) (a) 2. is renumbered as Comm 82.33 (9) (a) 2. a. and amended to read:

Comm 82.33 (9) (a) 2. ~~Wastewater~~ a. Except as provided in subpar. b., wastewater more than 160° F. in temperature not discharge into any part of a shall be discharged by means of indirect waste to the plumbing system.

SECTION 110. Comm 82.33 (9) (a) 2. b. is created to read:

Comm 82.33 (9) (a) 2. b. Steam condensate blow down shall be cooled to 160° F in temperature prior to discharging to a plumbing system.

SECTION 111. Comm 82.33 (9) (b) is repealed and recreated to read:

Comm 82.33 (9) (b) *Clear water.* All clear water shall discharge by means of an air-gap.

SECTION 112. Comm 82.33 (9) (c) 1. b. is amended to read:

↙ covers 2 in. also

Comm 82.33 (9) (c) 1. b. ~~The top of a~~ A 1 1/2-inch or larger diameter standpipe receptor shall terminate at least 32 inches but not more than 42 48 inches above the floor on which the clothes washer is located.

SECTION 113. Comm 82.33 (9) (c) 1. c. is created to read:

Comm 82.33 (9) (c) 1. c. A 2-inch or larger diameter standpipe receptor shall terminate at least 26 inches but not more than 48 inches above the floor on which the clothes washer is located. A 2-inch trap and fixture drain shall be installed downstream of the standpipe.

SECTION 114. Comm 82.33 (9) (d) is repealed and recreated to read:

Comm 82.33 (9) (d) Dishwashing machines. All dishwashing machines shall discharge to the sanitary drain system.

1. 'Residential type.' The indirect waste piping from a residential-type dishwashing machine shall not exceed a developed length of 10 feet. The indirect waste piping from a residential-type dishwashing machine shall be installed in accordance with one of the following methods:

a. Where an air-gap or air-break is located below the countertop, the indirect waste piping from the dishwashing machine shall discharge to a standpipe. The standpipe shall be at least 1 1/2 inches in diameter and shall extend at least 15 inches above the trap weir.

b. Where an air-gap or air-break is located above the countertop, the indirect waste piping from the dishwashing machine shall discharge to local waste piping. The local waste piping shall connect to the kitchen sink branch tailpiece above the trap inlet, the standpipe or to the dishwashing machine connection of a food waste grinder. When the local waste piping discharges to a standpipe, the standpipe shall be at least 1 1/2 inches in diameter and shall extend at least 15 inches above the trap weir.

SECTION 115. Comm 82.33 (9) (e) and (g) 6. are amended to read:

Comm 82.33 (9) (e) Drips and drain outlets. Appliances, devices and apparatus not defined as plumbing fixtures which have drip or drain outlets, which discharge to the plumbing system, shall be drained through indirect waste piping discharge into an open approved receptor by means of an approved air-gap or air-break.

(g) 6. ~~Preparation sinks~~ 'Food preparation.' Open culinary ~~sinks~~ sink compartments for thawing or washing food shall discharge to the sanitary drain system through indirect waste piping an independent connection by means of an air-gap. ~~The indirect waste piping may fixture drain upstream of the air-gap shall not exceed a length of 30 inches.~~

SECTION 116. Comm 82.33 (9) (i) is repealed.

SECTION 117. Comm 82.33 (9) (k) is created to read:

Comm 82.33 (9) (k) Cross connection control devices or assemblies. Where a receptor is provided, the vent port discharge from cross connection control devices or assemblies shall discharge to a receptor by means of an air-gap.

SECTION 118. Comm 82.33 (10) is renumbered as Comm 82.33 (10) (a).

SECTION 119. Comm 82.33 (10) (a) Note is created to read:

Comm 82.33 (10) (a) Note: See Appendix A-82.30 (11) (d) for further explanatory material. Section NR 812.08 may require additional setbacks from wells for water treatment devices.

SECTION 120. Comm 82.33 (10) (b) is created to read:

Comm 82.33 (10) (b) The indirect waste piping or tubing from a water treatment device shall be of a material conforming to one or more of the standards listed in Tables 84.30-9 or 84.30-11.

SECTION 121. Comm 82.34 (1) and (2) are repealed and recreated to read:

Comm 82.34 Wastewater treatment devices. (1) SCOPE. The provisions of this section set forth the requirements for design and installation of wastewater treatment devices, appurtenances and systems, including but not limited to interceptors, catch basins, and dilution and neutralizing basins.

(2) MATERIALS. All piping, devices and appliances for wastewater treatment devices, appurtenances and systems shall be of approved materials in accordance with ch. Comm 84.

SECTION 122. Comm 82.34 (3) (intro.) is amended to read:

Comm 82.34 (3) GENERAL. Any deleterious waste material which is discharged into a plumbing system shall be directed to an interceptor, catch basin or other approved a wastewater treatment device. The interceptor, catch basin or approved wastewater treatment device shall be capable of separating the deleterious waste material from the normal sewage wastewater and retaining the deleterious waste material to facilitate its periodic removal or treatment treating the wastewater by chemical addition, or both.

SECTION 123. Comm 82.34 (3) (a) to (f) are renumbered as Comm 82.34 (3) (b) to (g).

SECTION 124. Comm 82.34 (3) (a) is created to read:

Comm 82.34 (3) (a) 1. Except as provided in subd. 2., wastewater discharged from water closets or urinals shall not be reused for drinking water or treated for reuse.

2. A publicly-owned treatment works or in-situ soil dispersal treatment system may treat wastewater discharged from water closets or urinals for reuse.

SECTION 125. Comm 82.34 (3) (g) is repealed.

SECTION 126. Comm 82.34 (3) (h) is renumbered as Comm 82.34 (3) (g).

SECTION 127. Comm 82.34 (4) (a) is repealed and recreated to read:

Comm 82.34 (4) GARAGE FLOOR AREA WASTEWATER. (a) *Garages for public buildings and facilities.* 1. Where a drain will be installed to receive the wastewater from floor areas of public buildings and facilities on which self-propelled land, air or water vehicles can be driven, the wastewater shall be discharged using one of the following methods:

a. In areas where vehicles will be serviced, the wastewater shall be discharged through a garage catch basin or oil interceptor.

b. In areas where vehicles will be driven or stored, the wastewater shall discharge through a floor drain equipped with a solid bottom sediment bucket, garage catch basin or oil interceptor.

2. Garage catch basins design shall conform to all of the following:

a. The holding area of the catch basin shall be watertight.

b. The catch basin shall have inside a minimum inside diameter of 36 inches.

c. The minimum depth of the basin shall be 24 inches measured from the lowest portion of the trap on the outlet of the basin.

d. The outlet of the basin shall be at least 4 inches in diameter and trapped with a water seal of at least 6 inches and constructed on the interior or exterior of the basin. Where an external trap is provided, the trap shall be within 36 inches of the basin.

e. Except as provided in sub. (4) (a) 5, the water line in the basin shall be at least 2 inches below all horizontal drains discharging into the basin. Where an external trap is provided, the measurement point on the horizontal drain shall be upstream of the trap.

f. The basin shall be provided with a cover at least 24 inches square or 24 inches in diameter.

g. Gravity drains from fixtures located on different floors from the basin may discharge into the basin if the drain stack carrying the wastewater is located at a distance equal to at least 20 times the inside diameter of the horizontal piping upstream of the basin.

h. Catch basins with solid covers shall be vented in accordance with par. (8) (c).

↑ ↑
no no. see p. 32.

3. Drains with traps may connect to the garage catch basin under all of the following conditions:

a. The trap shall be a minimum of 3 inches in diameter.

b. Except as provided in subd. 3. c., the developed length from all trap outlets to the basin shall not exceed the distance as specified in Table 82.31-1.

c. Where the maximum distance exceeds that as specified in Table 82.31-1, the trap shall be vented in accordance with s. Comm 82.31 (3) and the connection to the basin shall form a 6-inch trap seal. The trap seal may be constructed on either the interior or exterior of the basin, but within 36 inches of the basin.

4. Drains without traps may discharge into a garage catch basin under all of the following conditions:

a. The fixture drain shall have a minimum 4-inch inside diameter.

b. The fixture drain shall be piped with a 6-inch water seal and constructed either on the interior or exterior of the basin.

c. An exterior trap shall be constructed within 36 inches of the basin.

d. The developed length of the fixture drain shall not exceed the distance equal to 24 times the diameter of the fixture drain.

e. Fixture drains shall individually discharge into a garage catch basin.

5. Pressurized drains discharging to a catch basin shall conform to all of the following conditions:

a. The pressurized drain piping shall terminate inside the basin with a 6-inch submerged inlet. The termination shall be at least 12 inches above the floor of the basin.

b. The pressurized equipment, devices and piping shall be designed and installed to produce a maximum velocity of 2 feet per second at the point of connection to the basin.

SECTION 128. Comm 82.34 (5) (b) Note is created to read:

Comm 82.34 (5) (b) Note: See Appendix A-82.30 (11) (d) for material reprinted from s. NR 812.08. Section NR 812.08 may have additional setback requirements to wells.

SECTION 129. Comm 82.34 (6) (a) is amended to read:

Comm 82.34 (6) (a) Design. Except as provided in subds. 1. and 2., and par. (b), car wash interceptors shall be constructed and installed in accordance with sub. (4) (a) 2.

SECTION 130. Comm 82.34 (8) is repealed and recreated to read:

Comm 82.34 (8) OIL AND FLAMMABLE LIQUIDS. Oily and flammable wastewater that discharges to a building sewer shall be intercepted or treated by a means acceptable to the department.

(a) *Site-constructed interceptors.* Site-constructed interceptors shall be designed in accordance with the requirements in subd. (4) (a) 2.

(b) *Prefabricated oil interceptors and separators.* Prefabricated oil interceptors and separators shall be manufactured with adequate capacity for the anticipated load.

SECTION 131. Comm 82.34 (14) (b) is amended to read:

Comm 82.34 (14) (b) Vents. The vents for chemical waste systems shall be sized and installed in accordance with ~~s. Comm 82.31~~ all of the following:

SECTION 132. Comm 82.34 (14) (b) 3. is created to read:

Comm 82.34 (14) (b) 3. The vents for a chemical waste basin shall be sized based on the number of drainage fixture units discharging into the basin and installed in accordance with s. Comm 82.31.

SECTION 133. Comm 82.35 (3) (a) is amended to read:

Comm 82.35 (3) WHERE REQUIRED. (a) *Horizontal drains.* All gravity horizontal drains within or under a building shall be accessible through a cleanout. ~~Cleanouts shall be located so that the~~ The developed length of drain piping between cleanouts ~~does~~ may not exceed 75 feet. For the purpose of this requirement, cleanouts in drain stacks may serve horizontal drains.

SECTION 134. Comm 82.35 (3) (d) 1. is amended to read:

Comm 82.35 (3) (d) Private interceptor main sewers. 1. Private interceptor main sewers 5 inches or less in diameter shall be provided with a cleanout or manhole ~~at the most~~ within 10 feet upstream of the point of the creation of the private interceptor main sewer and such that:

SECTION 135. Comm 82.35 (3) (g) is renumbered as Comm 82.35 (3) (g) 1. and amended to read:

Comm 82.35 (3) (g) Branches. ~~Cleanouts~~ 1. Except as provided in subd. 2., cleanouts shall be provided in connection with batteries of fixtures at such points that all parts of the branch drain pipes may be reached accessible for cleaning or removal of stoppages. For the purposes of this requirement, removable fixture traps may serve as ~~a cleanout opening~~ cleanout openings.

SECTION 136. Comm 82.35 (3) (g) 2. is created to read:

Comm 82.35 (3) (g) 2. A cleanout shall not be required for a branch drain when the fixtures on the branch include one floor outlet fixture and any fixtures discharging into an accompanying wet vent.

SECTION 137. Comm 82.35 (3) (m) is created to read:

Comm 82.35 (3) (m) *Catch basins and interceptors.* The fixture drain from all interceptors designed in accordance with s. Comm 82.34 (4) (a) 2. shall be provided with an accessible cleanout located outside of the basin and not more than 15 inches from the weir of the trap.

SECTION 138. Comm 82.35 (5) (a) 1. is repealed and recreated to read:

Comm 82.35 (5) (a) 1. All interior and exterior cleanouts where the vertical distance between the centerline of the horizontal drain pipe being served and the top of the cleanout opening exceeds 18 inches in length, shall connect to the drain piping through a fitting as specified in Table 82.30-4.

SECTION 139. Comm 82.36 (3) is repealed and recreated to read:

Comm 82.36 (3) DISCHARGE. When discharged to a plumbing system storm water and clear water shall be discharged as specified in Table 82.38-1 and in accordance with all of the following conditions:

(a) *Discharge to sanitary sewer.* Clear water may be discharged to a sanitary drain system which connects to a publicly-owned treatment works, if the discharge from the building is not more than 50 gallons per day are discharged to that sanitary sewer.

(b) *Segregation of wastewater.* 1. a. Except as provided in subd. b., where a sanitary drain system and a storm drain system are available, the piping carrying storm water or clear water may not connect to any part of the sanitary drain system.

b. Where a combined sanitary-storm sewer system is available storm water, clear water and sanitary wastewater may not be combined prior to discharging to the building sewer.

2. When discharged by gravity storm water may not be combined with clear water prior to discharging to the storm building drain.

SECTION 140. Comm 82.36 (5) (e) is amended to read:

Comm 82.36 (5) (e) *Minimum size of storm building sewers.* The pipe size for storm building sewers shall be determined from Tables 82.36-1 to 82.36-4a. Storm building sewers serving combined storm water and clear water ~~wastes~~ shall be sized in accordance with ~~Table~~ Tables 82.36-4 and 82.36-4a.

SECTION 141. Comm 82.36 Table 82.36-4 (partial) is amended to read:

Table 82.36-4 (partial)
MAXIMUM CAPACITY OF STORM WATER
HORIZONTAL DRAIN PIPING FLOWING FULL

Pipe Diameters (in inches)	Maximum Capacities in Gallons Per Minute (in gallons per minute)			
	Pitch of Piping Per Foot			
	1/16 inch	1/8 inch	1/4 inch	1/2 inch
4	59 50	75	115	145

SECTION 142. Comm 82.36 (10) is amended to read:

Comm 82.36 (10) FIXTURE BRANCH CONNECTIONS NEAR BASE OF STACK. Branch drains from interior clear water inlets shall not connect downstream from the base fitting or fittings of a ~~drain~~ drain stack or conductor within the distance equal to 20 pipe diameters of the building drain.

SECTION 143. Comm 82.36 (11) (a) 3. is amended to read:

Comm 82.36 (11) (a) 3. 'Location.' All sumps installed for the purpose of receiving clear water, basement or foundation drainage water shall be located at least ~~15~~ 25 feet from any reservoir or water well.

SECTION 144. Comm 82.36 (11) (a) 3. Note is created to read:

Comm 82.36 (11) (a) 3. Note: See Appendix A-82.30 (11) (d) for material reprinted from s. NR 812.08. Section NR 812.08 may have additional setback requirements.

SECTION 145. Comm 82.36 (12) is amended to read:

Comm 82.36 (12) SUBSOIL DRAINS. Where a subsoil foundation drain for a building is subject to backwater, it shall be protected by an accessible backwater valve or a sump with pump. ~~Subsoil drains may discharge into an area drain, drain tile receiver or a sump with pump.~~

SECTION 146. Comm 82.36 (13) (a) 2. is repealed and recreated to read:

Comm 82.36 (13) (a) 2. The storm building drain and sewer serves buildings which are all located on one property and a document, which indicates the piping and distribution arrangement for the property and buildings, will be recorded with the register of deeds no later than 90 days after installation.

SECTION 147. Comm 82.36 (14) (a) and (b) are amended to read:

Comm 82.36 (14) ~~Wastes~~ TRAP REQUIREMENTS. (a) Traps shall be required for interior drain