

## Chapter ILHR 82

## INDEX

See also first page of the chapter for the listing of section headings.

## A

ILHR Section No(s).

|  |                              |
|--|------------------------------|
| <b>ACCESS</b>  |                              |
| To backwater valves .....                                    | 82.30 (11) (b) 2. b.         |
| To cleanouts .....   | 82.35 (5)                    |
| To fixture traps .....                                       | 82.32 (4) (a), 82.35 (3) (j) |
| To floor drains .....  | 82.32 (5) (a)                |
| To interceptors .....  | 82.34 (3) (f)                |
| <b>ADMINISTRATION AND ENFORCEMENT</b> .....                  |                              |
|  | 82.20, 82.21                 |
| Petition for variance .....                                  | 82.20 (11)                   |
| Plan review and approval ...                                 | 82.20 (1) (a), 82.20 (1) (b) |
| Priority plan review .....                                   | 82.20 (3)                    |
| <b>AGENT MUNICIPALITIES</b> .....                            | 82.20 (2)                    |
| <b>AIR BREAK</b>   |                              |
| Definition .....   | 82.11 (3)                    |
| Installation .....   | 82.33 (7) (b)                |
| Required .....   | 82.33 (9)                    |
| <b>AIR GAP</b>   |                              |
| Definition .....   | 82.11 (4), 82.11 (5)         |
| Installation .....   | 82.33 (7) (a)                |
| Required .....   | 82.33 (9)                    |
| <b>AIR INTAKE</b>  |                              |
| Distance to vent terminal .....                              | 82.31 (16) (d)               |
| <b>AIR TEST</b> .....  | 82.21 (1) (d)                |
| <b>AREA DRAINS</b> .....                                     | 82.36 (17)                   |
| <b>AREAWIDE WATER QUALITY MANAGEMENT PLAN</b>                |                              |
| Definition .....   | 82.11 (11)                   |
| Conformance .....  | 82.20 (4) (c)                |
| <b>ATMOSPHERIC VACUUM BREAKER</b>                            |                              |
| Definition .....   | 82.11 (165m)                 |
| Limitations .....  | 82.41 (4) (b) 82.41-1        |
| <b>B</b>   |                              |
| <b>BACKFILLING</b> .....                                     | 82.30 (11) (e)               |
| <b>BACKFLOW PREVENTER WITH INTERMEDIATE ATMOSPHERIC VENT</b> |                              |
| Definition .....   | 82.11 (17)                   |
| Limitations .....  | 82.41 (4) (d), 82.41-1       |
| <b>BACKFLOW PROTECTION</b> .....                             | 82.41                        |

**BACKWATER VALVES**

|                      |                      |
|----------------------|----------------------|
| Accessibility .....  | 82.30 (11) (b) 2. b. |
| Definition .....     | 82.11 (19)           |
| Where required ..... | 82.30 (11) (b) 2.    |

**BAROMETRIC LOOP** .....

82.41-1

**BEDDING FOR SEWERS** .....

82.30 (11) (e)

**BOTTLING ESTABLISHMENTS** .....

82.34 (9)

**BRANCH INTERVAL**

|                      |               |
|----------------------|---------------|
| Definition .....     | 82.11 (29)    |
| Loading limits ..... | 82.30 (4) (a) |

**BUILDING DRAIN**

|                        |                              |
|------------------------|------------------------------|
| Definition .....       | 82.11 (34)                   |
| Installation .....     | 82.30 (11)                   |
| Sizing, sanitary ..... | 82.30 (4) (a), 82.30 (4) (b) |
| Sizing, storm .....    | 82.36 (5)                    |

**BUILDING SEWERS**

|                           |                                    |
|---------------------------|------------------------------------|
| Connections to main ..... | 82.30 (11) (f)                     |
| Definition .....          | 82.11 (38), 82.11 (39), 82.11 (40) |
| Frost protection .....    | 82.30 (11) (c) 2.                  |
| Installation .....        | 82.30 (11) (e)                     |
| Sizing, sanitary .....    | 82.30 (4) (a), 82.30 (4) (c)       |
| Sizing, storm .....       | 82.36 (5) (e)                      |

## C

**CAR WASH, AUTOMATIC** .....

82.34 (6)

**CHANGES IN DIRECTION, DRAIN PIPING** .....

82.30 (8)

**CATCH BASINS, GARAGE** .....

82.34 (4)

**CHEMICAL WASTE PIPING**

|                      |            |
|----------------------|------------|
| <b>SYSTEMS</b> ..... | 82.34 (14) |
|----------------------|------------|

**CIRCUIT VENTS**

|                    |                |
|--------------------|----------------|
| Definition .....   | 82.11 (45)     |
| Installation ..... | 82.31 (10)     |
| Sizing .....       | 82.31 (14) (f) |

**CLEANOUTS**

|                     |           |
|---------------------|-----------|
| Accessibility ..... | 82.35 (5) |
| Required .....      | 82.35 (3) |
| Size .....          | 82.35 (6) |

**CLEAR WATER DRAINS**

|                             |               |
|-----------------------------|---------------|
| Indirect waste piping ..... | 82.33 (9) (b) |
| Segregation of wastes ..... | 82.36 (3) (c) |
| Sizing .....                | 82.36 (5) (c) |

**CLOTHES WASHERS** .....

82.33 (9) (c)

## INDEX

## COMMON VENTS

- Definition ..... 82.11 (50)
- Installation ..... 82.31 (11)
- Sizing ..... 82.31 (14) (e)

## CONDUCTORS

- Definition ..... 82.11 (51)
- Sizing ..... 82.36 (5) (b)

## CONTINUOUS FLOW DEVICES

- Sanitary system ..... 82.30 (3) (b)
- Storm system ..... 82.36 (4) (b)

## CONTROLLED FLOW ROOF DRAIN SYSTEMS

- ..... 82.36 (19)

## CORPORATION COCK

- Definition ..... 82.11 (53)
- Required ..... 82.40 (4)

## CROSS CONNECTIONS

- Definition ..... 82.11 (55)
- Control ..... 82.41

## CURB STOP

- Definition ..... 82.11 (56)
- Required ..... 82.40 (4)

## D

DEAD ENDS ..... 82.21 (2) (i)

DEFINITIONS ..... 82.11

DETRIMENTAL WASTES ..... 82.34 (3)

## DEVELOPED LENGTH

- Definition ..... 82.11 (59)
- Between vent and trap ..... 82.31 (9)

DISHWASHING MACHINES ..... 82.33 (9) (d)

## DISINFECTION OF POTABLE WATER

- SYSTEMS ..... 82.40 (8) (i)

DRAINAGE FIXTURE UNITS — (SEE  
FIXTURE UNITS, DRAINAGE)

## E

## EJECTORS

- Definition ..... 82.11 (64)
- Requirements ..... 82.30 (10) (b)

## ELEVATOR PIT SUBSOIL AND FLOOR DRAINS

- ..... 82.33 (9) (f)

## F

## FITTINGS

- Minimum radius in drain system ..... 82.30 (8)
- Prohibited ..... 82.30 (9) (c)

## FIXTURE DRAIN CONNECTIONS

- Direct ..... 82.32 (4), 82.32 (5)
- Indirect ..... 82.33

## FIXTURE UNITS, DRAINAGE

- Definition ..... 82.11 (69)
- Values for continuous flow ..... 82.30 (3) (b)
- Values for intermittent flow ..... 82.30 (3) (a)

## FIXTURE UNITS, SUPPLY

- Definition ..... 82.11 (70)
- Assigned to various fixtures ..... 82.40 (6)

## FLOOD LEVEL RIM

- Definition ..... 82.11 (72)

## FLOOR DRAINS

- Required ..... 82.30 (11) (b) 3.

## FLOOR SINKS

- Definition ..... 82.11 (73)
- Requirements ..... 82.33 (8) (b)

## FOOD HANDLING

- ESTABLISHMENTS ..... 82.33 (9) (g)

## FREEZING, PROTECTION

- OF PIPES ..... 82.40 (8) (a)

## FROST PROTECTION, SEWERS

- ..... 82.30 (11) (b) 2.

FUTURE FIXTURES ..... 82.30 (4) (e)

## G

GARAGE CATCH BASINS ..... 82.34 (4)

GARBAGE CAN WASHERS ..... 82.32 (5) (a)

GREASE INTERCEPTORS ..... 82.34 (5)

## H

HANGERS AND SUPPORTS ..... 82.60

HEALTH CARE AND RELATED FACILITIES ..  
..... 82.50

HEATER SAFETY DEVICES ..... 82.40 (5) (d)

## HOT WATER

- Heaters and tanks ..... 82.40 (5) (c)
- Required ..... 82.40 (3) (b)
- Temperature maintenance ..... 82.40 (5) (b)

## I

INDIRECT WASTE PIPING ..... 82.33

- Boilers, pressure tanks and relief valves ... 82.33 (9)  
(a)

- Clear water wastes ..... 82.33 (9) (b)

- Clothes washers ..... 82.33 (9) (c)

- Dishwashing machines ..... 82.33 (9) (d)

- Drips and drain outlets ..... 82.33 (9) (e)

- Elevator pit subsoil and floor drains ... 82.33 (9) (f)

- Food handling establishments ..... 82.33 (9) (g)k

- Receptors ..... 82.33 (8)

- Sterilizers ..... 82.33 (9) (h)

Swimming pools ..... 82.33 (9) (i)  
 Vacuum systems - central units ..... 82.33 (9) (j)

INDIVIDUAL VENTS ..... 82.31 (3), 82.31 (9)

INSPECTIONS ..... 82.21 (1)

INSULATION, SEWERS ..... 82.30 (11) (c)

INTERCEPTORS ..... 82.34  
 Accessibility ..... 82.34 (3) (f)  
 Automatic car washes ..... 82.34 (6)  
 Bottling establishments ..... 82.34 (9)  
 Chemical dilution and neutralizing basins .... 82.34  
 (14)  
 Commercial laundries ..... 82.34 (7)  
 Dairy product processing plants ..... 82.34 (10)  
 Garage catch basins ..... 82.34 (4)  
 Grease interceptors ..... 82.34 (5)  
 Meat processing plants and  
 slaughterhouses ..... 82.34 (11)  
 Oil and flammable liquids ..... 82.34 (8)  
 Plaster and heavy solids ..... 82.34 (13)  
 Sand ..... 82.34 (12)

INTERCONNECTIONS..... 82.41

J

K

KITCHEN SINK DRAIN  
 CONNECTIONS ..... 82.32 (5) (b)

L

LAUNDRIES  
 Commercial ..... 82.33 (9) (c), 82.34 (7)  
 Self-service ..... 82.33 (9) (c)

LOCAL VENT, INTERCEPTORS ... 82.34 (4) (a) 2.

LOCAL WASTES ..... 82.33

M

MAIN STACK ..... 82.31 (3) (b)

MAINTENANCE..... 82.21 (2)

MANHOLES..... 82.35 (8)

N

NONPOTABLE WATER ..... 82.11 (102)

NOTIFICATION FOR INSPECTION ..... 82.21 (1)

O

OFFSETS  
 Definition ..... 82.11 (106)  
 In drains ..... 82.30 (6)  
 In vents ..... 82.31 (15) (b)

OIL INTERCEPTORS..... 82.34 (8)

P

PIPING PROTECTION  
 Backfilling ..... 82.30 (11) (e)  
 Frost protection ..... 82.30 (11) (c)  
 Trenching and bedding ..... 82.30 (11) (e)  
 Wheel loading ..... 82.30 (11) (e) 4.

PITCH  
 Drain piping ..... 82.30 (5)  
 Vent piping..... 82.31 (15), 82.31 (12) (c)

PLAN REVIEW AND APPROVAL ..... 82.20

PRIVATE INTECEPTOR MAIN SEWERS  
 Definition ..... 82.11 (118)  
 Installation..... 82.30 (12)  
 Sizing ..... 82.30 (4) (d)  
 Conformance to areawide water quality  
 management plan ..... 82.20 (4) (c) 2.

PUMPS  
 Sewage ..... 82.30 (10)  
 Storm and clear water ..... 82.36 (11)

Q

R

RADII OF DRAIN FITTINGS ..... 82.30 (8)

REDUCED PRESSURE PRINCIPLE-TYPE  
 BACK-FLOW PREVENTER  
 Definition ..... 82.11 (126)  
 Annual testing..... 82.21 (2) (a)

RELIEF VENTS  
 Building drain ..... 82.31 (7)  
 Circuit vented horizontal drain..... 82.31 (10) (b)  
 Drain stack offset..... 82.30 (6) (b), 82.31 (5)  
 Sizing ..... 82.31 (14) (g)  
 Wet vented horizontal drain ..... 82.31 (13) (b)

ROOF DRAINS..... 82.36 (18), 82.36 (19)

S

SAND INTERCEPTOR ..... 82.34 (12)

SANITARY DRAIN SYSTEM..... 82.30

SLAUGHTERHOUSES ..... 82.34 (11)

## INDEX

|  |               |
|--|---------------|
| SMOKE TEST .....                             | 82.21 (1) (d) |
| STORM AND CLEAR WATER<br>DRAIN SYSTEMS ..... | 82.36         |
| SUMPS  |               |
| Sanitary .....                               | 82.30 (10)    |
| Storm .....                                  | 82.36 (11)    |
| SWIMMING POOLS .....                         | 82.33 (9) (i) |

## T

|  |                |
|--|----------------|
| TEMPERATURE OF WASTE .....               | 82.33 (9) (a)  |
| TESTING AND MAINTENANCE .....            | 82.21 (2)      |
| TRAPS .....                              | 82.32          |
| Required .....                           | 82.32 (3)      |
| Prohibited types .....                   | 82.32 (3) (f)  |
| TRENCHING, EXCAVATION,<br>BACKFILL ..... | 82.30 (11) (e) |

## U

|  |               |
|--|---------------|
| UNDERGROUND DRAIN PIPING                   |               |
| Minimum size .....                         | 82.30 (4) (b) |
| USED PIPING MATERIAL AND<br>FIXTURES ..... | 82.21 (2) (e) |

## V

|                         |                   |
|-------------------------|-------------------|
| VACUUM BREAKERS .....   | 82.41             |
| VALVES                  |                   |
| Backwater .....         | 82.30 (11) (b) 2. |
| Pressure reducing ..... | 82.40 (7) (d) 2.  |
| Relief .....            | 82.40 (5) (d)     |
| Safety .....            | 82.40 (5) (d)     |
| Control, water .....    | 82.40 (4)         |
| VELOCITY                |                   |
| Drain lines .....       | 82.30 (5)         |
| Water lines .....       | 82.40 (7) (e)     |

## VENT STACK

|                  |             |
|------------------|-------------|
| Definition ..... | 82.11 (169) |
| Required .....   | 82.31 (4)   |

## VENTS AND VENTING SYSTEMS .....

|   |  |
|---|--|
| Circuit .....                             | 82.31 (10)   |
| Combination drain and vent .....          | 82.31 (17)   |
| Common .....                              | 82.31 (11)   |
| Developed length between vent and trap .. | 82.31 (9)  |
| Individual .....                          | 82.31 (3), 82.31 (9)                                   |
| Island fixtures .....                     | 82.31 (12)   |
| Laboratory sink .....                     | 82.31 (17) (c)   |
| Main stack required .....                 | 82.31 (3) (b)  |
| Relief .....                              | 82.30 (6) (b), 82.31 (5),<br>82.31 (7), 82.31 (10) (b) |
| Sizing .....                              | 82.31 (14)   |
| Stack vents required .....                | 82.31 (14)   |
| Vent grades and connections .....         | 82.31 (15)   |
| Vent stack required .....                 | 82.31 (4)  |
| Vent terminals .....                      | 82.31 (16)   |
| Wet vent .....                            | 82.31 (13)   |
| Yoke .....                                | 82.30 (6) (b), 82.31 (5), 82.31 (6)                    |

## W

|                              |               |
|------------------------------|---------------|
| WASTE WATER TEMPERATURE .... | 82.33 (9) (a) |
| WATER SUPPLY SYSTEMS .....   | 82.40         |
| Control valves .....         | 82.40 (4)     |
| Relief valves .....          | 82.40 (5) (d) |
| Sizing .....                 | 82.40 (7)     |
| WATER TEST .....             | 82.21 (1) (d) |
| WET VENTING .....            | 82.31 (3)     |

## Y

## YOKE VENTS

|                  |                                     |
|------------------|-------------------------------------|
| Definition ..... | 82.11 (186)                         |
| Required .....   | 82.30 (6) (b), 82.31 (5), 82.31 (6) |
| Size .....       | 82.31 (14) (h)                      |