



March 18, 2021

MACKENZIE REED-KADOW CLERK
CITY OF MANITOWOC
900 QUAY ST
MANITOWOC WI 54220

Project Number: W-2021-0138
PWSID#: 43603648
DNR Region: NER
County: Manitowoc

WATER MAIN PLAN AND SPECIFICATION APPROVAL

Water system name: Manitowoc Waterworks

Date received: 02/16/2021

Engineering firm: Manitowoc Public Utilities

Professional Engineer: Rob Michaelson, P.E.

DNR Plan Reviewer: Ken Scherer, 101 South Webster Street, Madison, WI 53703, (715) 520-3981,

Kenneth.scherer@wisconsin.gov

Location(s): WM replacement on South 30th Street

Private water mains and water services may require plan review by Department of Safety and Professional Services (DSPS), and are not reviewed or approved by the Department of Natural Resources. Contact DSPS at 608-267-9421 for further information on potential need for plan review.

Condition(s) of approval:

1. A preconstruction conference shall be held to ensure the understanding of, and compliance with, the approved plans and specifications, the proposed method of erosion control, the duties of the resident project representative, the disinfection and bacteriological sampling requirements of s. NR 810.09(4), Wis. Adm. Code and any special conditions listed below. If Safe Drinking Water Loan Program funds will be sought for this project, notify the Department's construction management engineer (CME) a minimum of 7 days prior to the preconstruction conference. The appropriate contact information for the respective project CME at <https://dnr.wi.gov/Aid/documents/EIF/Guide/managers.html>.
2. A competent resident inspector shall be designated and present on the worksite as needed to assure proper construction and installation of the water main. (s. NR 811.11, Wis. Adm. Code)
3. Wherever water mains cross over sewers a minimum vertical clearance of 6 inches from the bottom of the water main to the top of the sewer shall be maintained, and wherever water mains cross under sewers a minimum vertical clearance of 18 inches from the top of the water main to the bottom of the sewer shall be maintained, and at crossings one full length of water pipe shall be centered on the sewer so that both joints are as far from the sewer as possible. (s. NR 811.74 (3), Wis. Adm. Code)
4. All tees, bends, plugs, and hydrants shall be provided with reaction backing, tie rods, or joints designed to prevent movement. (s. NR 811.73 (2)(f), Wis. Adm. Code)

5. All water main pipe shall be pressure and leakage tested to meet at a minimum the requirements as set forth in AWWA Standard C600-93. (s. NR 811.73 (2)(c), Wis. Adm. Code)
6. All hydrants with drain ports that are not plugged shall be provided with a gravel pocket or dry well to provide adequate drainage. (s. NR 811.71 (4), Wis. Adm. Code)
7. All proposed water mains shall be installed in the public right-of-way or permanent utility easements. (s. NR 811.68 (2), Wis. Adm. Code)
8. All waterworks improvements shall be thoroughly disinfected and shall not be placed in service until bacteriologically safe samples have been obtained in accordance with s. NR 810.09(4), Wis. Adm. Code. (s. NR 811.73(2)(d), Wis. Adm. Code)

Approval constraints: The project was reviewed in accordance with s. 281.41, Wis. Stats. for compliance with Chapters NR 108, NR 810 and NR 811, Wis. Adm. Code and is hereby approved in accordance with s. 281.41, Wis. Stats. subject to the conditions listed above. This approval is valid for four years from the date of approval.

Appeal rights: If you believe that you have a right to challenge this decision, you should know that the Wisconsin Statutes and administrative rules establish time periods within which requests to review Department decisions must be filed. To request a contested case hearing pursuant to s. 227.42, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. Requests for contested case hearings must be made in accordance with ch. NR 2, Wis. Adm. Code. Filing a request for a contested case hearing does not extend the 30 day period for filing a petition for judicial review. For judicial review of a decision pursuant to ss. 227.52 and 227.53, Wis. Stats., you must file your petition with the appropriate circuit court and serve the petition on the Department within 30 days after the decision is mailed. A petition for judicial review must name the Department of Natural Resources as the respondent.

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

For the Secretary



Ken W. Scherer, PE
Public Water Engineering Section
Bureau of Drinking Water and Groundwater

cc: Rob Michaelson, P.E. - Manitowoc Public Utilities (email)