

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
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April 29, 2021

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

Project Number: W-2021-0208B
PWSID#: 43603648
DNR Region: NER
County: Manitowoc

WATER MAIN PLAN AND SPECIFICATION APPROVAL

The Wisconsin Department of Natural Resources, Division of Environmental Management, Bureau of Drinking Water and Groundwater, is conditionally approving plans and specifications for the following project. An engineering report or information of sufficient detail to meet the requirements of s. NR 811.09(3), Wis. Adm. Code, was submitted along with the plans and specifications.

Water system name: Manitowoc Waterworks

Date received: 04/23/2021

Engineering firm: Stantec

Professional Engineer: Jacob Woelmer, P.E.

DNR Plan Reviewer: Benjamin Mand, 101 South Webster Street, Madison, WI 53703, (608) 576-4778, benjamin.mand@wisconsin.gov

Project Description: Water main extension on River Point Drive, York Street, North 11th Street, and Buffalo Street. These extensions will include approximately 2,400 feet of 8-inch ductile iron pipe.

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. Service connections that will have static pressures exceeding 80 psi should have an individual pressure reducing valve installed in accordance with DSPS requirements. Contact DSPS at 608-267-9421 for further information on potential need for plan review.

The department conditionally approved plans for water main extensions on River Point Drive, York Street, North 11th Street, and Buffalo Street on April 6, 2021, under project number W-2021-0208. On April 7, 2021, the department issued a revised approval letter, under project number W-2021-0208A, which addressed piping and gasket material changes for potential soil contamination in a portion of the project area. On behalf of the City of Manitowoc, Stantec has submitted revised plans to change the gasket material on Buffalo Street from fluorocarbon to nitrile from STA 24+25 to STA 27+83. The conditions of the approval letter dated April 7, 2021 remain in effect.

Portions of the water main relays are being constructed in an area of potential/known organic compound contamination. The station numbers marking the boundaries of the areas of contamination and the water main construction requirements in the associated area are the following:

River Point Drive:

- STA 48+25 to STA 56+45, Class 52 ductile iron, poly-wrap and fluorocarbon gaskets

York Street:

- STA 30+09 to STA 34+84, Class 52 ductile iron, poly-wrap and fluorocarbon gaskets

North 11th Street:

- STA 0+97 to STA 4+50, Class 52 ductile iron, poly-wrap and fluorocarbon gaskets

Buffalo Street:

- STA 24+25 to STA 27+83, Class 52 ductile iron, poly-wrap and nitrile gaskets
- STA 23+70 to STA 24+25, Class 52 ductile iron, poly-wrap and fluorocarbon gaskets

The following special protections must be used within the contaminated area and must extend a minimum of one additional pipe connection and one full pipe length beyond the contaminated area boundaries. In addition, clay dams must be installed in the trench at the project boundaries to prevent contaminant migration along the trench. Furthermore, hydrants located within the boundaries of contamination must have permanently plugged drain ports or be provided with hydrant barrels that do not have drain ports. The hydrant barrels must be pumped dry during freezing weather in the contaminated areas. If additional contamination is encountered or additional sampling is collected, this section must be contacted to approve the use of alternate water main materials compatible with the contaminants encountered.

PLEASE NOTE: Fluorocarbon gaskets are manufactured utilizing fluorinated carbon compounds. As a result, these gaskets have been manufactured with, and may contain, per- and polyfluoroalkyl substances (PFAS). Studies on specific hazards from the use of fluorocarbon gaskets and whether PFAS compounds may leach into the water supply from the use of these gaskets has not been conducted or published. Therefore, any potential risks of PFAS contamination of drinking water from these gaskets is unknown. Construction of water mains through areas of contamination shall be avoided where possible (NR. 811.69(5), Wis. Adm. Code) and there may be potential health risks from the use of fluorocarbon gaskets in water main construction.

Condition(s) of approval:

1. A resident project representative shall be designated by the water supply owner or by the agent retained by the owner. The resident project representative shall be knowledgeable regarding the proposed construction and be able to ensure the improvements are being constructed in accordance with the department approved plans, specifications, and conditions of the approval. The project representative shall be present on the work site as need to assure proper construction and installation of the improvements. (s. NR 811.11, Wis. Adm. Code)
2. After construction, maintenance, repair or modification, waterworks facilities shall be disinfected by procedure outlined in the applicable A.W.W.A. standards for wells, water mains, storage facilities or treatment facilities. Waterworks may not be placed in service until bacteriological samples have established that the water is bacteriologically safe. (s. NR 810.09(4), Wis. Adm. Code)
3. The appropriate Water Management Specialist from the Department shall be contacted to determine whether a Chapter 30 permit is required. Any required Chapter 30 permit shall be obtained prior to construction. (ch. 30, Wis. Stats.) County designation, contact information, and additional guidance can be found by going to <http://dnr.wi.gov/topic/Waterways/contacts.html> or calling the waterway and wetland information line at (920) 662-5452.

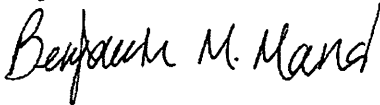
4. The water main proposed within contaminated areas shall be poly-wrapped, class 52 or greater ductile iron with fluorocarbon/nitrile gaskets. In addition, hydrant drain ports shall be plugged and the barrels shall be pumped dry during freezing weather in these contaminated areas. (s. NR 811.69(5), Wis. Adm. Code)
5. Clay dams shall be installed in the trench at the contaminant boundaries to prevent contaminant migration along the trench. Proper practices for the treatment and disposal of contaminated material shall be implemented. (s. NR 811.73 (2)(a), 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.

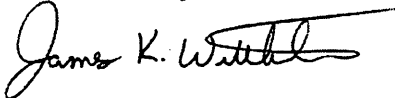
STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

Project Plan Reviewer



Benjamin M. Mand
Public Water Engineering Section
Bureau of Drinking Water and Groundwater

For the Secretary



James K. Witthuhn, P.E.
Public Water Engineering Section
Bureau of Drinking Water and Groundwater

cc: Robert Michaelson – Water Systems Manager, Manitowoc Public Utilities (by email)
Jacob Woelmer – Stantec, Des Moines, IA (by email)
Tauren Beggs – DNR, Remediation and Redevelopment, Green Bay (by email)