IOWA DEPARTMENT OF NATURAL RESOURCES
WATER SUPPLY ENGINEERING SECTION

CONSTRUCTION PERMIT APPLICATION

SCHEDULE-2a, Water Mains, General

Date Prepared _____

Project Name/Description (use the 'continued' section on page 2 if more room is needed)

Date Revised _____

1. List the purpose of the project (e.g., expand service area, improve system pressure or flows):

   _____

2. Does the water system have adequate source, treatment, and storage capacity to service the additional demand resulting from the proposed project? ☐ N/A ☐ Yes ☐ No

   If No, explain: _____

3. Proposed Piping Inventory: (attach additional sheets if necessary)

Material (Designate Alternates)	AWWA or ASTM Standard	Pipe Class	Pipe Pressure Rating (psi)	Maximum System Pressure (psi)	Nominal Diameter (inches)	Length of Water Main (feet)

4. Search for leaking underground storage tank (LUST) sites within 500 feet of the proposed water main using Facility Explorer. Attach the search results. Include this attachment even if no LUST sites are present within the search radius.

   Are there any LUST sites within 500 feet of the proposed water main? ☐ Yes ☐ No

   If Yes, list the LUST sites within 500 feet of the water main:

   _____

   List the LUST sites with plumes the water main passes through:

   _____

   Utility company notification forms and plume maps are available in the DNR's Document Search program.
   Note: Where distribution systems are installed in areas where groundwater is contaminated by organic compounds, pipe and joint materials which do not allow permeation of the organic compounds must be used.

5. This project will result in a minimum pressure of _____ psi to develop in the system under all conditions of flow. (e.g., peak instantaneous demand, fire flow, and flushing flow).

   Source of pressure data: _____

6. What is the minimum size of water main serving fire hydrant? _____ inches ☐ N/A
7. What is the minimum size of fire hydrant lead? _____ inches ☐ N/A
8. Are all hydrant leads valved? ☐ N/A ☐ Yes ☐ No
9. Minimum depth of cover from the springline of the pipe: _____ feet
10. Does each water main deadend have a fire hydrant, flushing hydrant, or blow off for flushing purposes? ☐ N/A ☐ Yes ☐ No
11. Miniumum horizontal (center to center) separation distance between water main and existing or future sanitary sewers: _____ feet, storm sewer: _____ feet

12. Where water mains cross over sewers, the minimum vertical separation distance (edge to edge) is:

_____ inches

13. Where water mains cross under sewers, the minimum vertical separation distance (edge to edge) is:

_____ inches

14. Is there a history of corrosive problems with buried pipes in the project area? ☐ Yes ☐ No

If Yes, explain corrosion protection measures:

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15. Will this project utilize temporary water mains to servce connections during construction? ☐ Yes ☐ No

Note: If Yes, temporary water mains shall be disinfected, flushed, and tested for bacteriological quality in accordance with AWWA C651 prior to use, shall be certified by an ANSI accredited third party for conformance with NSF/ANSI Standard 61 specifications, and shall be properly equipped with appropiate backflow prevention devices.

16. Are DNR-approved Standard Specifications being applied on this project? ☐ Yes ☐ No

If Yes, Approved Standard Sepcifications of (name of municipality or firm):

Date approved: _____

If No, Schedule 2b must also accompany this application.

Note: If the applicant for this Construction Permit is someone other than the supplier of water (the water utility), a properly executed Water Supply Service Agreement (DNR Form 542-3121) must accompany this application.

Note: If this is a joint Water-Wastewater project, a construction permit application should be submitted separately to the Wastewater Engineering Section of the Iowa Department of Natural Resources.

Project Description (continued)