



<https://www.grand-island.com/departments/community-development/building-services>

Email contact for private water services: privatewaterservice@grand-island.com

PRIVATE WATER SERVICE PLAN SUBMITTAL REQUIREMENTS

CURRENT REVISION: FEBRUARY 7, 2024

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SUBMITTAL

Plans shall be submitted online at the following link on the Building Service web page.

<https://www.grand-island.com/departments/community-development/building-services/forms-permits-and-applications>

Use application - Private Water Service Pipe Application and Design Review (electronic submittal)
Plans must be submitted digitally as PDF's. Scaling must be 1:20 or larger when printed full size (22" x 34"). Half size prints (11" x 17") should be 1:40 or larger. All PDF submittals **MUST** print to scale.

Plan and profile drawings shall bear the signature and stamp of a Professional Engineer registered in the State of Nebraska.

All communication for water service submittals shall be sent to privatewaterservice@grand-island.com

REVIEW FEES

1. Engineer Review Fee

A plan review fee equal to 50% of the total of the permit fee will be due.

2. Permit Fee

A permit fee will be calculated based on the estimated value of the private water service project. The fee schedule is located at

<https://www.grand-island.com/departments/community-development/building-services/fee-schedule>

3. Collection of Fees

Private water services shall be issued a permit separate from the building permit. The permit and plan review fees shall be determined by the estimated construction cost of the water service. The fees for the water service permit shall be paid separate from the building permit fees unless the cost of the water service is included in the parent building permit. If it is desired for the water service cost to be included in the parent building permit cost, then the building permit fees shall be paid prior to issuing the water service permit.

COVER SHEET

1. Location Map

A map depicting where the site is located with a legal description and physical address

2. Title Block

Title block must contain the project name and address.

3. Project Contractors

Identification of the General Contractor and Licensed Plumbing Contractor.

4. Sheet Index

An index must be included if multiple sheets compose the plan set.

5. Horizontal and Vertical Control

- Note vertical control, control point elevations, horizontal coordinates, datum used, and description of physical location
- Note horizontal control, coordinate system used, control point coordinates, and description of physical location.

GENERAL NOTES

1. Polyethylene Encasement

All ductile iron pipes shall be 8 mil polyethylene encased unless waiver is granted by the Utility.

2. Grand Island Private Water Service Standards

Note to include that all installations must conform to the most current version of the following standards:

- City of Grand Island Utilities Water Standards
- City of Grand Island Code Chapter 26 Plumbing
- City of Grand Island Code Chapter 35 Water
- 2021 Uniform Plumbing Code

3. Water Main Taps

Note to include that water main taps:

- Must be made by the City Water Department at the expense of the Contractor.
- Licensed Plumbing Contractor will be responsible for providing all necessary fittings and valves.
- Licensed Plumbing Contractor will be responsible for excavating, backfilling, and restoring the location.
- Licensed Plumbing Contractor will be responsible for pumping out the pit during installation.
- Licensed Plumbing Contractor will be responsible for shoring pit (if deemed necessary by the Utility)
- Licensed Plumbing Contractor will be responsible for thrust blocking all tapping valves.
- Licensed Plumbing Contractor must coordinate installation with the Water Shop (308.385.5436) or a Utility Engineering Representative. Contact must be made at least 48 hours prior to commencement of work.

4. Testing & Sampling

Contractor shall be responsible for:

- Coliform testing.
- The rate for sampling is \$550 for each two-day round of sampling.
- The rate for chlorinating is \$0.42 per foot of pipeline for each round of chlorination.
- Contractor must supply tap, extension piping, and valving as directed by the Utility Department.
- Contractor may hire City personnel to chlorinate piping or choose to chlorinate piping him or herself. If Contractor chooses to self-chlorinate, a written notification must be delivered to the Grand Island Utilities Engineering Department at least 24 hours in advance of the activity taking place.
- If work is performed by multiple Contractors or performed in more than one stage, each phase will be subject to individual testing and related fees.

5. Private Water Services

- All water services, of any size, must be installed under the direction of a City of Grand Island licensed plumber.

PLAN VIEW NOTES

1. Stationing

All Water Mains must be stationing by one of the following methods:

- Stationed along the Water line in fifty (50) foot increments. Stationing must commence at the connection point with the existing watermain.
- Stationed by road centerline with offsets given for all PI's.

2. Device Notes

The following (at minimum) must be noted with stationing, quantity, and description:

- Valves
- Hydrants
- Fittings
- Pipe Deflections
- Thrust Blocks
- Retainer Glands
- Service Connections

3. Informational Notes

The following (at minimum) must be noted:

- Scale must be 1:20 or larger when printed full size (22" x 34"). Half size prints (11" x 17") should be 1:40 or larger. All PDF submittals MUST print to scale.
- North Arrow
- Other Utilities (with pipe/conduit size if known)
- Buildings
- Horizontal Distances shown from other Utilities or Foundations that are within 10' of all horizontal clearance requirements.
- Easements (with widths noted)
- Street Names

PROFILE VIEW NOTES

1. Stationing

- Stationing shown in fifty (50) foot increments

2. Informational Notes

The following (at minimum) must be noted:

- Utility crossings shown with station and approximate location
- A note depicting (18" Min) at the location of all Storm Drain and Sanitary Sewer Crossings
- Flowline elevation of all Storm Drain and Sanitary Sewer Crossings
- Horizontal Scale (Must be 1:20 or larger)
- Vertical Scale must be noted
- Elevations on Grid
- Existing Grade
- Final Grade
- Note depicting full pipe length and type/size of pipe being installed

DISTANCES FROM OTHER UTILITIES AND FOUNDATIONS

1. Horizontal Clearance

All Water Mains and Water Service Lines must have (at minimum):

- Ten (10) feet of clearance from all storm drain and sanitary sewer pipe.
- Ten (10) feet of clearance from all sanitary and storm drain structures (inlets, outfalls, etc.)
- Three (3) feet of clearance when paralleling any non-sewer utility pipe/conduit.
- Five (5) feet of clearance when paralleling the foundation wall of any structure.

2. Vertical Clearance

All Water Mains and Water Service Lines must have (at minimum):

- Eighteen (18) inches of clearance from all storm drain and sanitary sewer pipe.
- Eighteen (18) inches of clearance from all sanitary or storm drain structures (inlets, outfalls, etc.)

3. Clearance Variances

- If the required horizontal and/or vertical separation distances cannot be met, a letter of professional opinion must be provided detailing why it is not practical to provide required separation, what remediation will be provided, and why this remediation will protect the water quality. This letter must be sealed by a professionally licensed Nebraska Engineer.

FIRE SERVICE ITEMS

1. Private Fire Service Water Pipe

- The fire service water pipe shall be separately tapped at the public water main.
- The domestic water pipe shall not be tapped off the fire service pipe.

2. Fire Service Standards

In addition to the private water service standards, fire service pipes shall also comply with the following

- 2021 International Fire Code
- 2019 NFPA 101 Life Safety Code with Nebraska Amendments
- NFPA 24 Standard for the installation of Private Fire Service Mains and Their Appurtenances

OTHER INFORMATION REQUIRED

1. Pipe Support Detail

When crossing under an existing water main with sanitary sewer, or another Utility, a pipe support detail must be provided as part of the plan set.

2. Traffic Control Plan

When working on or adjacent to a City street, a Temporary Traffic Control Plan must be submitted and approved by the Grand Island Public Works Dept. (308.385.5444 Ext. 260)