

**Town of Thomson
Sanitary Sewer Connection Application**

Job Site Address: _____ PID# _____

Property Owner

Name: _____ Contact Person: _____

Address: _____ City: _____ State: _____ Zip: _____

Phone: _____ Cell: _____ Email: _____

Contractor

Name: _____ Contact Person: _____ Email: _____

Address: _____ City: _____ State: _____ Zip: _____

Phone: _____ Cell: _____ Contractor License # _____

Connection Type

Residential

Single Family Two-Family

Commercial

Commercial Multi-Family
 Industrial Public/Institutional Building

- New Connection
- Gravity Sewer
- Pressure Sewer*
- Repair/Replacement

*NOTICE: Pressure sewer services require both pressure testing for gravity and pressure sewer below.

Certificate of Insurance for \$1,000,000.00 listing the "Town of Thomson" as Also Insured is required before work begins

By signing this application, you hereby certify that you have read and examined this application. All provision of laws and ordinances governing this type of work will be complied with whether specified herein or not. The granting of a permit does not presume to give authority to violate or cancel the provisions of any other state or local law regulation construction or the performance of construction.

Applicant's Printed Name _____ Date _____ Signature of Contractor _____ Date _____

FEE SUMMARY

\$ _____ Permit
 \$ _____ Sewer Connection
 \$ _____ WLSSD CAF
\$ _____ TOTAL FEE
 \$ _____ Card Conv. Fee
\$ _____ Total Paid
 Date _____
 Auth No. _____

Construction Requirements: (All testing must be observed by the building official)

- Gravity Lateral Air Test (refer to chart on next page for times)
 Lateral Size: _____ inches Lateral Material: _____
 Pressure Used: _____ psi Time Used: _____ Min _____ Sec
- Pressure Sewer Lateral test (hydrostatic – 2 hour test)
 ** For Pressure Connections, both pressure lateral and gravity lateral test are required for acceptance.
 Pressure Used: _____ psi
 Start Time: _____ am/pm
 End Time: _____ am/pm
- Tracer Wire Checked and Operational

This proposed sewer connection or repair work has been completed, tested and inspected by the Town.

Inspector Signature _____ Date _____

Sketch of sewer service layout: (please reference distances to nearest manholes, property lines or other features that are unlikely to move)

Sewer Testing Procedures:

1. Gravity Sewer Testing:

- a. All sewer connections shall be tested in accordance with ASTM F1417 prior to connection to the main.
- b. All homes shall have a cleanout to facilitate testing and future inspection. Cleanout shall be installed downstream of required sewage backflow preventer.
- c. Low-pressure air testing shall occur at no less than 5 psi. No greater than a 1 psi pressure drop is allowable.
- d. Length of test is as follows (refer to ASTM F1417 if pipe size is not included below):

Pipe Diameter, in.	Minimum Time, min's.	Length (L) for Minimum Time, ft	Time for Longer Lengths
4	3:46	597	0.380 L
6	5:40	398	0.854 L
8	7:34	298	1.520 L
10	9:26	239	2.374 L

2. Pressure Lateral Testing:

- a. All pressure sewer connections shall be both hydrostatically and low pressure tested for both the pressure and gravity portions of the service connection.
- b. Gravity section shall refer to section above
- c. Pressure testing shall be completed in accordance with AWWA C600, Section 4, hydrostatic testing. The hydraulic test shall be conducted at 150 percent of the operating pressure of the main or 150 psi, whichever is greater.
 - i. Water shall not be added during the test
 - ii. Pipe section shall not be accepted if the test pressure drops more than 5 psi within the test duration.

3. Tracer Wire:

- a. All tracer wire shall be tested for continuity and function prior to the completion of the service. No deposit will be refunded without tracer wire continuity being confirmed. Contractor shall coordinate testing with Public Works, with a minimum of 48-hours notice.
- b. **TRACER WIRE STANDARDS AS SPECIFIED BELOW**

GENERAL

Tracer wire and connectors shall be provided for all non-conductive pipe and all water, sewer and storm sewer piping within Thomson Township. The Town requires private services to have tracer wire installed to the right-of-way line in order to comply with MN Rules 7560.0375(C). Residents are encouraged to install tracer wire on all service lines to the wall of the house where said service enters the structure.

Tracer wire standards shall be per Minnesota Rural Water Association Sewer/Water Utility – Trace Wire Specification, with amendments herein:

MATERIALS

Tracer Wire

All tracer wire shall be made in the USA and include HDPE insulation intended for direct bury applications and color coded per APWA standard for the utility being marked.

Tracer wire shall conform to the following, based on method of install:

- Open Trench: Tracer wire shall be #12 copper clad steel, high strength, minimum break load of 450 lb and 30 mil. HDPE insulation.
- Directional Drilling/Boring: Tracer wire shall be #12 copper clad steel, extra high strength with minimum break load of 1,700 lb and minimum 45 mil. HDPE insulation.
- Pipe bursting/slip lining: Tracer wire shall be 7x7 stranded copper clad steel, extreme strength, with 4,700 lb break load with minimum of 50 mil HDPE thickness.

Any installation via horizontal directional drill or pipe bursting shall require a minimum of two (2) wires to be installed with the piping. Prior to completing the project, all tracer wire must be tested and the contractor shall be responsible for replacing unlocatable wires at their expense.

Connectors

All mainline tracer wire connectors shall be SnakeBite Locking Connectors by Copperhead Industries or approved equal. Non-locking friction fit, twist or taped connectors are prohibited.

Termination/Access Boxes

Locating boxes for sanitary sewer or storm sewer shall be Snake Pit magnetized tracer boxes from Copperhead Industries, LLC, or approved equal, as follows:

Color	Installation Type	Model
Per APWA Utility Color Chart	Turf	Snake Pit Lite Duty Box Model LD14GTP
	Bituminous	Snake Pit Roadway Box Model RB14GTP
	Concrete	Snake Pit Concrete/Driveway Box Model CD14GTP

Access boxes shall be installed on all sewer services at the property line. All tracer wire box covers shall have an alpha character stamped on the top of the pentagon security bolt. Characters shall be "W" for water, "ST" for storm, "SN" for sanitary.