WATER AND SEWER UTILITY SERVICES AND DRAINAGE SYSTEM

PURPOSE

To clearly define the obligations of both property owners and the Town of Hanley.
To inform contractors that the Town will no longer assume any excavation or waiting charges.

REQUEST FOR WATER AND SEWER UTILITY SERVICES

1. Water lines that may be required shall be constructed and laid down from the main line to the property line by the Owner and the Municipality shall be solely responsible for keeping them in repair.

2. An application shall be made and duly signed by the owner as outlined in Schedule "A" attached hereto, before any work will commence.

INSTALLATION OF WATER AND SEWER UTILITY SERVICES

1. Provincial and Federal plumbing codes and any other regulations pertaining to water and sewer service installation, as well as any local Town of Hanley specifications shall be followed.
2. Water and sewer connections must be inspected by the authorized town inspector before such connections are backfilled.
3. The property owner shall be responsible for the cost of returning the land to its previous condition including the cost of replacing sidewalk and road surface.
4. The property owner will be responsible for having the water meter installed. The Town of Hanley shall supply the water meter to be installed. A fee may be charged for water meters other than the standard or ¾" meter provided by the Town. The larger than standard meters may be charged to the users at the Town's actual cost over and above the standard.
    a. The Town of Hanley shall supply the curbstop to be installed. A fee may be charged for curbstops other than the standard or ¾" to 1" size. The larger than standard curbstops may be charged to the users at the Town's actual cost over and above the standard.
5. This policy shall be provided to every building permit applicant.
6. This policy shall be provided to all applicable local contractors upon its approval.
7. Water Service pipe shall be:
    a. Minimum inside diameter of 20 mm (3/4");
    b. Constructed of series 160 poly tubing, Copper type "K" soft or plastic municipal tubing. Any water service work that requires splicing or joining of any poly tubing must be done with brass compression couplers or butt fusion;
    c. Insulated where required by the town, using insulation material as approved by an engineer;
    d. If existing service is above a one o'clock position on main, use robar repair sleeve with service;
    e. In the event that disconnected piping and connections are evident, they shall be decommissioned or removed.

f. Meuller brass fittings shall be used for installation of line from the main to the property line. (172/15)

8. Sewer Service pipe shall be:
   a. High density pipe or 4" SDR 35 PVC Ring-Tite pipe complete with rubber gaskets;
   b. Minimum inside diameter of 100 mm (4");
   c. Insulated where required by the Town, using insulation material as approved by an engineer.
9. Pipe Bedding and Backfill Material shall be either the bottom of the trench (undisturbed soil), sand or rubber mulch/tire shred.
10. Water service line may be installed in a common trench with sanitary sewer line.
11. To install:
   a. Ensure that all pipes and fittings are clean and free of defects before, during and after installation;
   b. Trench to minimum cover of 2.6 m (8.5') over sewer pipe, 2.8 m (9')over water pipe at curb stop and 2.25 m (7.25') at building, or as approved by an engineer (depths are to be from finished grade);
   c. Sewer pipe to have minimum grade of 1% for 150 mm (6"), 2% for 100 mm (4");
   d. Lay sewer pipe on prepared bed, ensuring proper alignment to prevent undue settlement;
   e. Installation of sewer pipe shall be to pipe manufacturer's specification and using approved equipment;
   f. Sewer pipe is not to be laid on frozen bedding;
   g. Water pipe is to be installed so it will drain to the curb stop from the building, at sufficient depth to prevent frost penetration.
12. Building Connections:

Water and sewer connection lines shall be brought a minimum of 1 m (39") up inside the basement. A ball valve shall be installed on the water line inside the building by the owner. A back-flow prevention device shall be installed on water lines on all new construction.

13. Hydrants:

In the event that a hydrant is required to be installed, the hydrant shall be manufactured in accordance with AWWA Standard C502, and shall be listed with ULC and FM. Hydrants to be compatible with the pipe materials specified. Post type hydrants: compression type hydrant, designed for working pressure of 1034 kPa with two 65 mm threaded hose outlets, one 100 mm threaded pumper connection, 150 mm riser barrel, 125 mm bottom valve and 150 mm connection for main. Hydrants to open counter clockwise, threads to Western Canada Underwriters' specification. Operating nut and caps to be 22 mm - 5 sided pentagonal shaped. Metal caps and chains must be provided. New hydrants installed must be yellow in colour Canada Valve Century (no equal). ~~(173/15) (267/15)~~ (76/16)

DRAINAGE SYSTEM

1. A sump system shall be installed and shall be in accordance with manufacturer's instructions and *The National Building Code of Canada, 2005;*
2. The system shall not be discharged into the Town of Hanley communal sanitary sewer system but may be discharged to a splash pad or non-porous ground surface which will divert the water to a distance of 1.2 m (4') from the building not onto neighbouring property;
3. Drainage must not spill onto sidewalk or street that may present a hazard or result to ice build-up, creating a slippery surface.
4. A battery backup pump is recommended;
5. A battery powered pump alarm is recommended;
6. A check valve is recommended.