

BUILDING SEWER CONNECTION MINIMUM REQUIREMENTS

1. **PERMIT REQUIRED** – No individual, firm, corporation or entity may expose the Iowa Great Lakes Sanitary District facilities without notifying the Sanitary District that the work is going to start. No connection or repairs will be made to a building sewer without first having a permit signed by the District Superintendent or their designee for the work that is to be completed. No required inspection of sewer connections will be made without an approved permit from the Iowa Great Lakes Sanitary District. Any individual, firm, corporation or entity planning to install, replace or repair a building sewer line should notify the Sanitary District twenty-four (24) hours in advance of the plan to start any work on the sewer system.
2. **LIABILITY INSURANCE** – No individual, firm, corporation or entity may work on the Iowa Great Lakes Sanitary District sewer facilities including connections or reconnects of the building sewers unless the individual, firm, corporation or entity has up to date liability insurance on file at the Iowa Great Lakes Sanitary District office. The liability insurance must be a minimum of \$1,000,000 and cover indemnifies the Iowa Great Lakes Sanitary District and District staff and other requirements as approved by the Board of Trustees.
3. **PIPE MATERIALS AND JOINTS** - The ONLY acceptable pipe materials are clay, cast-iron, ductile iron, schedule 40 SOLID wall PVC; no substitutions are acceptable. PVC pipe must show the SCH 40 lettering on each pipe section. Pipe acceptable for boring will be Certa-Lok Yellomine pipe with coupling or integral bell and an SDR of 21 or 17. Gasketed joints shall be cleaned and properly lubricated. All glued joints shall be dried, cleaned, primed with purple primer, and properly glued with blue glue (Rain-R-Shine or Equal). Threaded or flex coupling (Fernco or equal) joints are acceptable. All joints of any pipe used must be inspected. At least one above grade flex coupling will be used on mobile home connections.

When a required inspection to reuse an existing sewer line for new construction or a remodeling project that requires a city or county building permit, finds unacceptable pipe materials, the unacceptable pipe materials must be abandoned. All abandoned unacceptable pipe material will be replaced with approved materials. All additional requirements with the building sewer that is being replaced must comply with all other Iowa Great Lakes Sanitary District connection policy and ordinances.

4. **DEPTH OF BURY** – Four (4) feet is the minimum cover for a building sewer. In the event that four (4) feet of cover cannot be obtained then two (2) inches of rigid insulation designed and labeled for direct bury will be installed over pipe from trench wall to trench wall with the sewer pipe centered under the insulation.
5. **CONNECTIONS TO SEWER MAIN** - Wye, tee, or riser connections will be used where available. If no wye, tee, or riser is available, a tap may be made in a District main except those mains that are cast-iron or ductile iron. The District has a tapping machine which will be used to cut the hole. The owner will furnish a commercial air compressor and the District will furnish the tapping machine. A Romex CB-4.80UN will be used on all 4-inch taps. All 4-inch connections shall be made or moved to the main wherever possible to a sewer main. A 4-inch connection is only allowed in a manhole at the discretion of District Superintendent.

If a manhole is not reasonable accessible for a 6-inch pipe, than a eight (8) inch by eight(8) inch

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by six (6) inch tee lined with Protecto 401 or Belzona 1341 shall be used with mechanical joints too and from the tee for all connections to a 8-inch main. The main will be sectioned as required by the District Superintendent. At the discretion of District Superintendent, an existing 6-inch service may use a Romex CB-6.66UN saddle to reconnect to the sewer main that is 8-inches in diameter. The Romex CB-6.66UN saddle may be used for a 6-inch connection to a main that is 10-inches in diameter or larger, if a tap or a manhole is not already available.

At no time can a ductile iron or cast iron pipe be sectioned or tapped for a service connection.

6. **CONNECTIONS INTO MANHOLES** - District personnel must be present before work starts on or around a manhole. For building sewer lines of all sizes the manhole will be bored and link-seal used to make the connection watertight. All holes will be a minimum of one foot away from any barrel section seam. All work inside the manhole will be done by **DISTRICT PERSONNEL**; no one else is authorized to enter the manhole.
7. **CLEANOUTS** – Cleanouts will be installed outside the building at the lower end of the building drain and extend to grade. Additional building sewer cleanouts shall be installed at intervals not to exceed one hundred (100) feet in straight runs and for each aggregate horizontal change in direction exceeding one hundred thirty-five (135) degrees. Approved manholes may be installed in lieu of cleanouts with the max. Distance between manholes not to exceed three hundred (300) feet. Cleanouts will be required for new building sewers and replacement of building sewers. If repairing a building sewer and a cleanout is not within 100 feet of the pipe repair, a cleanout will be required, only in the repair area.
8. **PIPE BEDDING** - All pipes will be laid on firm, stable, undisturbed soil. Washed pea rock to 1” crushed rock will be used to stabilize and fill over excavated trenches. At a minimum the bedding material will be placed up to the spring line of the pipe.
9. **INSPECTION** - The connection to the main or manhole and all installed piping and all joints shall not be backfilled until inspected by District personnel. Any repair, change or modification of a building sewer service must not be back filled until inspected by District personnel. Any pipe that is not inspected by District personnel will be uncovered and inspected at the cost of the property owner.
10. **LOCATION** – No building sewer shall be located in any lot other than the lot that is the site of the building or structure served by such sewer. The use of an abutting lot or any other lot(s) to connect a building sewer to a public sewer will require a legal easement. Such easement shall be recorded in the office of the Dickinson County, Iowa Recorder as part of the conditions of ownership of said properties, and shall be binding on all heirs, successors, and their assigned assessors to such properties. A copy of the recorded easement shall be filed with the office of the Iowa Great Lakes Sanitary District prior to the issuance of a Wastewater Connection Permit.
11. **JOINT OWNERSHIP OF PRIVATE LINE** - When more than one lot is serviced by a private common six (6) inch or larger sewer service pipe, a maintenance agreement will be required before a sewer connection or inspection permit will be issued. The maintenance agreement shall cover the responsibility of maintenance and repairs for all those who are allowed to connect to the

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common sewer service line. The agreement shall also state what properties are allowed to connect to the private common service or how other property gain access to connect to the private sewer service. A maintenance agreement shall be filed at the office of the Dickinson County, Iowa Records office. A copy of the recorded agreement shall be filed with the office of the Iowa Great Lakes Sanitary District prior to the issuance of a Wastewater Connection or inspection permit.

12. CONNECTION FROM SEPTIC SYSTEM TO THE PUBLIC SEWER – Any property that is going from a septic system to the public sewer system will need to follow the following requirements.
 - a. INSPECTION FOR EXISTING BUILDING SEWER - If the owner plans on using any part of the existing building sewer pipe between the house and the septic tank, that pipe will need to be inspected to ensure that it is meeting the requirements of the Sanitary District to be reused.
 - i. If the pipe is found to meet the requirements of the Sanitary District, then it may be reused.
 - ii. If the pipe does not meet the requirements of the Sanitary District, then it may be repaired or could require a total replacement depending on the issues found.
 - b. CLEANOUTS – Cleanouts will be required in accordance with the number 7 of this policy, except for the cleanout outside of the foot of the building, which is detailed below.
 - i. If a new pipe is going to be installed to the structure, then the cleanout requirement will follow number 7 of this policy.
 - ii. If the existing pipe is going to be reused and if found upon inspection to meet the requirements of the Sanitary District requirements, then the cleanout may be installed at the connection of the existing building sewer line and the new building sewer line going to the public sewer main.
 - iii. If a repair is needed, between the tank and the house, then the clean out will be installed at the site of the cleanout.
 - c. OLD SEPTIC TANK – The old septic tank must be pumped out. Once the tank is pumped out, then it shall have the top removed and filled with granular material. The Sanitary District recommends removing the tank, but it is not a requirement.

A COPY OF THE CONNECTION PERMIT AND THESE INSTRUCTIONS SHOULD BE AT THE CONSTRUCTION SITE PRIOR TO INITIATING WORK ON THE SEWER LINE.