

KEY LARGO WASTEWATER TREATMENT DISTRICT



HOMEOWNER'S TIE-IN PACKAGE

This package contains tie-in instructions for your wastewater connection.



Key Largo Wastewater Treatment District

103355 Overseas Highway, Key Largo, FL 33037

Phone (305) 451-4019 • www.klwtd.com

To perform a wastewater tie-in, you may do one of the following:

- Hire a contractor /plumber. You or the contractor may apply for the necessary permits.
- Hire a private provider who will apply for permits and perform inspections.
- Apply for your own permits and complete the work yourself. For this choice, please continue reading.

Do not start until KLWTD has provided your parcel with a 30-Day Notice to Connect. The vacuum system will not be active until a 30-Day Notice is provided. You will not be able to pull your permits, begin your lateral pipe construction or connect to the street of your house until you have a 30-Day Notice.

The location is not final until the clean out box is installed.

Steps for Application Process

1. Request a Tie-In Package and a Notice of Availability of Wastewater Service letter (NOA) from KLWTD.
2. **Health Department:** Present NOA Letter to the Health Department. This office is located in The Murray Nelson Building at Mile Marker 102. Once you have received your Health Department permit you may proceed to the Monroe County Building Department. (Murray Nelson Building, MM 102 Bayside) for your construction permit.
3. **Building Department:** Provide the original sealed NOA Letter. This office is also located at The Murray Nelson Building at MM 102.
4. After you receive your Monroe County Building Permit for your wastewater connection, then you may begin construction. You may hire a plumber or do the work yourself. Our website has a link to the State of Florida's list of all plumbers that are licensed in Monroe County.
5. Before you dig contact Sunshine at 811. For location of all underground utilities where you will be digging. Dial 811 to be automatically connected to the State of Florida Sunshine location service. This is a legal requirement of the State and it's free. KLWTD will respond to the 811 call as well.

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Steps for Construction

See Lateral Pipe Tie-In Diagram for additional information.

- Step 1:** Expose the KLWTD connection pipe near the cleanout box and the existing lateral pipe between the home and the septic tank. Your lateral pipe must run downhill from your home to the KLWTD pipe at a minimum slope of 1-inch X 8 feet. The location and elevation of your existing building discharge pipe and any landscaping features will determine the design route and the amount of material you will need to construct your lateral pipe. KLWTD requires lateral pipes to be 4" PVC SDR21. There shall be a clean out and backwater check valve within 5 feet of the home. The KLWTD pipe is 6" and will require you to provide an adapter down to 4" pipe provided. No turn should be greater than 45 degrees. Best practice is to use as few turns as possible and use all of the fall available. Use purple primer and gray PVC cement.
- Step 2:** Review images of Street Connection and House Connection examples included in this packet. Measure, plan, obtain materials, measure again, then dig the ditch and build the lateral pipe. Make sure to provide for dewatering ditch if necessary so the lateral pipe will stay clean and dry until it can be capped. Dewatering maybe required. **Disposal of run-off from your lot requires a permit. DO NOT TIE-IN AT EITHER END!!** After the lateral pipe is complete and temporarily capped or plugged (water tight) on ends, but **not backfilled**, call for inspections.
- A. Monroe County will conduct a hydro test that checks the lateral pipe for leaks. For further assistance, Building Department can be contacted at 305-453-8725.
- B. KLWTD will conduct inspections, which may include the use of a camera, to insure the lateral pipe is properly constructed and free of debris. Rocks not cleared from the lateral pipe will punch holes in the vacuum system. Contact KLWTD at 305-451-4019 for inspections when ready. The KLWTD inspections are as follows:
- Phase 1** - The capped lateral pipe is tested. The lateral pipe spans from the KLWTD cleanout, in the right of way, to the building discharge.
- Phase 2** - The lateral pipe is connected to the KLWTD cleanout in the right of way. See Street Connection Example attached.
- Phase 3** - Final connection from capped lateral pipe at building to building discharge pipe. At this point, service will be live. See House Connection Example attached.
- Owners who fail to have KLWTD perform open ditch Phase 1 & 2 Inspections will be charged \$500 by KLWTD to clean the pit by vacuum truck and for inspection of the entire system.**
- Step 3:** **Do not backfill ditch**, after KLWTD Phase 3 final connection is completed. Call the Monroe County Building Department for your Final Plumbing inspection. After Monroe County has signed the building permit, backfill the balance of the ditch. You may replant your landscaping as you wish.
- Step 4:** Our Engineer will provide a signed and sealed letter directly to the County. You may also need to decommission your septic tank. For further assistance, you can contact the **Florida Department of Health in Monroe County at 305-453-8750.**

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Service Lateral Pipe Connection Standards

All sewer service lateral pipes connecting to the Key Largo Wastewater Treatment District's (KLWTD) system shall conform to industry standards and all requirements of Chapter 62 and 64E-6 of the Florida Administrative Code and the Internal Plumbing Code 200 (IPC). Materials and design must also conform to the requirements of AirVac, the vacuum system manufacturer.

Those requirements include the following items:

1. Gravity service lateral pipes must be schedule 40 pressure (200 psi or greater) rated or SDR-21 plastic.
2. All joints and fittings shall be glued with industrial grade gray solvent cement/glue.
3. Trenching, bedding and backfilling shall conform to IPC Section 106.
4. Existing plumbing must be demonstrated to be water tight in accordance with the requirements of the IPC Section 3121 or 3122.
5. Any plumbing that is covered without inspection will have to be completely exposed for inspection.
6. Prior to final connection to the vacuum pit, the lateral piping must be plugged, jet rodded or otherwise flushed of all foreign materials with a 4" test ball in place of the pit. Test balls must be not removed until plumbing inspectors and hydrostatic tests have passed. Anyone flushing a line into a pit without a test ball or test cap in place will pay a pump out and cleaning fee of \$500 for illegally discharging foreign material into the KLWTD's collection system.
7. KLWTD will television inspect the interior of all lines before they are ready for service.
8. See "Street Connection and House Connection" for lateral pipe information.
9. Existing septic tank systems will be abandoned per the requirements of 64E-6011 FAC Monroe County Health Department.
10. Additional regulation may apply.



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Methods To Help Lower The Cost of Your Sewer Hookup

1. Partner with your neighbors. This will allow a contractor to give you a discount by hooking up several homes in the same area.
2. Obtain bids from several contractors. Make sure you are comparing apples to apples when comparing prices and services.
3. Ask about supplying the materials you will need. You can purchase them at discount prices from supply houses. This can save on the mark up charges by the contractor.
4. Ask about pulling the permits for the contractor. It saves them time and you get the financial savings.
5. Locate your septic tank so the contractor can give an accurate estimate. This can be accomplished by calling the Monroe County Health Department at 305-453-8750 to see if they have your septic tank location on file.
6. Remove and relocate any plants, shrubs or trees that maybe in the way. Doing so will keep them out of harm's way, you can replant after all of the work is complete.



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Street Connection Example

1. Lateral pipe and the connection point cap



2. District's 6-inch cap removed



3. The glued 4x6 inch adaptor



4. Lateral pipe elevation brought up to homeowner's building discharge pipe



5. Final connection point prepped and ready for installation



6. Final connection product



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House Connection Example

1. Disconnect house from septic tank



4. Final connection point prepped and ready for installation



2. Exposed homeowner's building discharge outlet ready for connection



5. Final connection



3. Backflow preventor installed, ready for final connection



6. Final product



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