

# COUNTY OF MAUI

## WASTEWATER CONSTRUCTION NOTES

1. All wastewater lines and appurtenances shall conform to Standard Details for Public Works Construction, dated September 1984, of the Department of Public Works, County of Maui.
2. All sewerline and appurtenances shall follow the design standards of the Wastewater Reclamation Division, City and County of Honolulu, Volumes 1 & 2, dated July 1993 and July 1984 respectively, unless otherwise noted.
3. All wastewater lines and appurtenances installations shall conform to the Standard Specifications for Public Works Construction dated September 1986. If any conflicts arise between the Standard Details, Design Standards and the Standard Specifications, the strictest standard shall apply, unless approved otherwise.
4. Before construction commences, the contractor shall schedule and document a pre-construction meeting with all agencies having utilities affected by the work.
5. Contractor must have a Site Specific Spill Prevention Plan (SSSPP) approved by WWRD prior to sewer line construction and/or sewer lateral connection to existing facilities, or any work within five (5) feet of wastewater system improvements.
6. The Department of Environmental Management, Wastewater Reclamation Division, has the right to stop construction, should any work be found contrary to the approved plans and specifications, or detrimental to the public interest.
7. All existing wastewater lines, whether or not shown on the plans, if damaged during construction, shall be repaired by the contractor and the contractor shall pay all expenses.
8. The contractor shall notify the Wastewater Reclamation Division five (5) working days prior to connection to any existing wastewater lines within the County of Maui.
9. Should the contractor excavate beyond the trench pay-width, as specified in the Standard Details for Public Works Construction, dated September 1984, and such action results in a greater load to the pipe, the contractor shall provide, at the contractor's expense, a higher class of bedding material that will withstand the added load.
10. Wastewater laterals shall be six (6) inches in diameter at a 2% slope, unless approved otherwise.
11. An advance riser connection shall be installed at each new wastewater lateral.
12. Where the clearance between a wastewater line and a new or existing utility line is less than eighteen (18) inches, the wastewater line shall be protected with a reinforced concrete jacket in accordance with the Standard Details of Public Works Construction, dated September 1984.
13. When the wastewater mains are of a different material than the laterals, the contractor shall install approved adapters.
14. All backfill for wastewater trenches shall be compacted in one (1) foot lifts to a minimum of 95% of its maximum density.
15. Where construction is to be done in phases or increments, each phase or increment shall be approved by Wastewater Reclamation Division before the next phase or increment is started.
16. All wastewater mains shall pass a mandrel test as a condition of acceptance 30 days after completion and backfill. The mandrel diameter shall be 95% or more of the inside diameter of the pipe being tested.
17. "As-built" drawings shall be submitted as a condition for the final acceptance of the project.
18. Prior to inspection by Closed Circuit Television (CCTV), all wastewater lines installed, including laterals, shall be flushed with water and any accumulated construction debris and other foreign materials shall be removed.
19. All main wastewater lines which will be dedicated to the County of Maui shall be inspected by CCTV in strict accordance with Department of Public Works CCTV policy, effective date July 15, 2001. Final acceptance of the system shall be contingent upon the passing of all requirements of this policy. CCTV results should be submitted on DVD per memo dated October 22, 2015. Should any of the sewer laterals fail to pass a visual inspection, then a CCTV of all laterals will also be required.
20. Any connection made under the water table will require CCTV at high tide to determine water tightness in accordance with Department of Public Works CCTV policy, effective date July 15, 2001. Final acceptance of the system shall be contingent upon the passing of all requirements of this policy.
21. Contractor shall be responsible for recording the GPS Coordinates of all buried and concealed work to be dedicated to the County, and provide the GPS data to the County prior to the project's final acceptance. An accurate GPS point every (50) feet along the main line, at utility crossings, and at any installed appurtenance (including but not limited to manholes, bends, concrete jacket, cleanout, pipe deviations, change in pipe size, critical joints, ARV, etc.). GPS data shall be in NAD 1983 State Plane Hawaii Zone 2 FIPS 5102 grid, and shall be accurate to within one (1) foot. Acquired GPS survey data shall be quality checked by the contractor prior to submission in shapefile (.shp) format, for compatibility with mainstream GIS software such as ESRI ArcMap.