

The City
of
Key Colony Beach

Wastewater Lateral
Replacement Standards

SEWER LATERAL REPLACEMENT

A. DRAWINGS AND SPECIFICATIONS:

All construction and pipe installation shall be in accordance with The City of Key Colony Beach Code of Ordinances Chapter 14 Sewers and Sewage Disposal and ASTM D-2321-11 Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications. The drawings are not necessarily shown in detail or to scale. Any discrepancies shall be brought to the attention of the authorized City personnel in charge of the project.

B. SITE INVESTIGATION

It shall be the responsibility of the Bidders to visit the site of the work and acquaint themselves with all available information regarding the location of existing facilities. Failure of the Bidders to fully inform themselves of all existing conditions and to include in their proposals a sum to cover the work sufficiently will not be cause for additional compensation.

C. MATERIALS

All materials used in this installation shall be new and of the best quality. All materials shall be stored and handled per manufactures standards during delivery and installation.

D. GUARANTEE AND WARRANTIES

The Contractor shall guarantee all work, materials, equipment, etc. against defects for a period of one year from the date of the final acceptance. The date of final payment shall be considered the date of final acceptance.

E. RESTORATION

The Contractor shall be instructed as to the extent of restoration required for each project i.e. pavement, sod, landscaping, etc.

F. EXISTING UTILITIES

The contractor shall contact all utilities for locates 48 hours prior to any construction operations.

G. TRAFFIC CONTROL

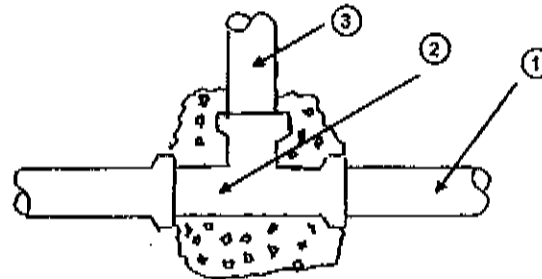
The contractor shall provide barricading, flagmen, etc, until the completion of the project. This shall include street traffic, bike paths and walkways.

F. SAFETY REQUIREMENTS

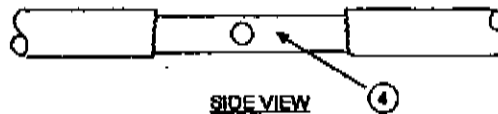
The contractor shall comply with THE TRENCH SAFETY ACT OF FLORIDA.

KEY

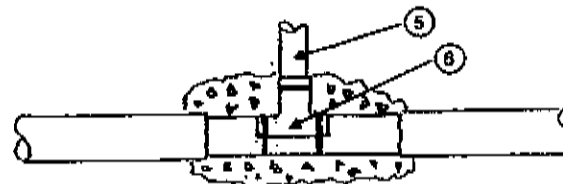
- 1 - MAIN
- 2 - TEE
- 3 - LATERAL
- 4 - EXPOSED SLIP LINE
- 5 - NEW PVC LATERAL SDR 35 WITH GASKETED JOINTS
- 6 - FLEXIBLE TAPPING SADDLE



TOP VIEW



SIDE VIEW



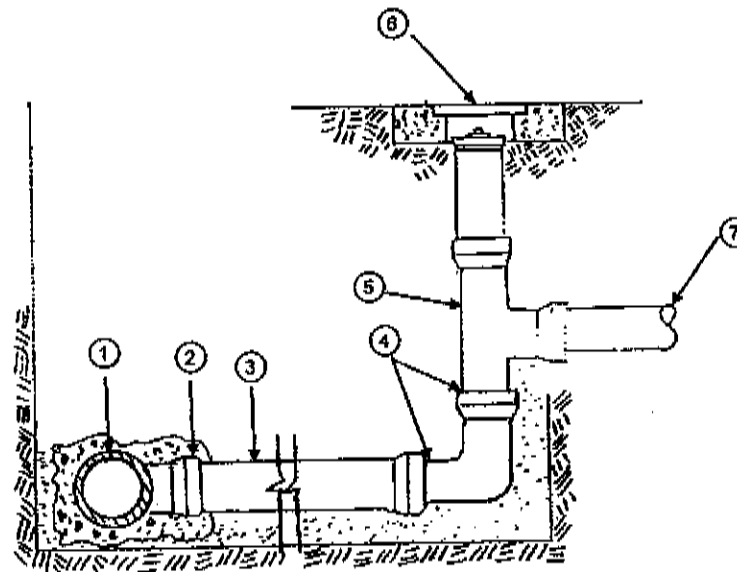
TOP VIEW

NOTES:

- A) REMOVE EXISTING TEE, LATERAL AND EMBEDMENT TO EXPOSE EXISTING SLIP LINE. (CONCRETE ENCASEMENT SHOWN, MAY OR MAY NOT EXIST.)
- B) THE FLEXIBLE TEE SHALL BE MADE BY FERNCO OR EQUAL WITH STAINLESS STEEL BAND CLAMPS INSTALLED PER MANUFACTURER'S REQUIREMENTS.
- C) ENCASE SADDLE & EXPOSED SLIP LINE WITH CONCRETE 3" MIN, 6" MAX. SACK MIXES ARE APPROVED.

KEY

- 1 - WASTEWATER MAIN
- 2 - FLEXIBLE SADDLE
- 3 - 6" WASTEWATER LAT. (LENGTH VARIES)
- 4 - 6" X 4" REDUCER AND 4" X 4" 90° OR 6" X 4" X 4" WYE
- 5 - 4" STACK (LENGTH VARIES)
- 6 - 4" WASTEWATER LAT. CLEANOUT CASTING
- 7 - BUILDING SEWER LAT.



NOTES:

- A) CLEANOUT CASTING SHALL BE CAST IRON BY U.S. FOUNDRY #7610 WITH A COVER LETTER "S" OR EQUAL.
- B) CLEANOUT CONCRETE PAD TO BE 2' SQUARE X 4" THICK AND PLACED TO GRADE ON WELL COMPACTED SOIL.
- C) THE MAINLINE LATERAL CONNECTION AND CLEANOUT TO THE PRIVATE BUILDING LATERAL SHALL BE AS CLOSE TO THE PROPERTY LINE AS POSSIBLE.
- D) WASTEWATER LATERAL TO BE PVC SDR 35 WITH GASKETED JOINTS. BUILDING SEWER CLEANOUT TO BE SAME AS LATERAL OR SCHEDULE 40 MAY BE APPROVED.

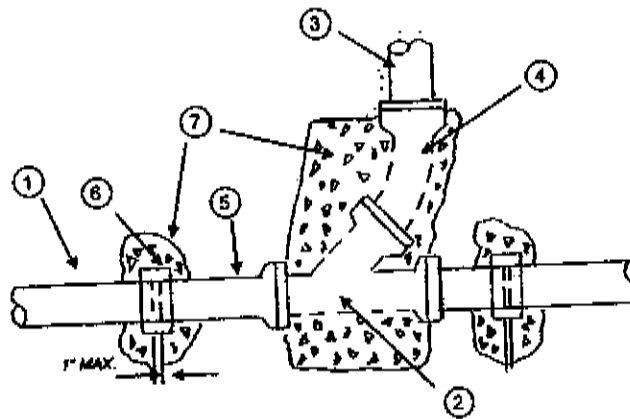
WASTEWATER LATERALS WITH CLEANOUT

The City of Key Colony Beach

January 2012

KEY

- 1 - WASTEWATER MAIN
- 2 - WYE (45° MAX.)
- 3 - MAINLINE LATERAL
- 4 - 45° BEND (MAX.)
- 5 - ADAPTOR
- 6 - RUBBER SLEEVE COUPLING OR PVC ADAPTER COUPLING
- 7 - CONCRETE ENCASEMENT (3" MIN. / 6" MAX.)



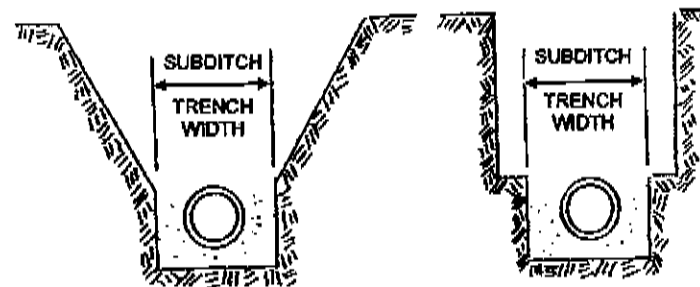
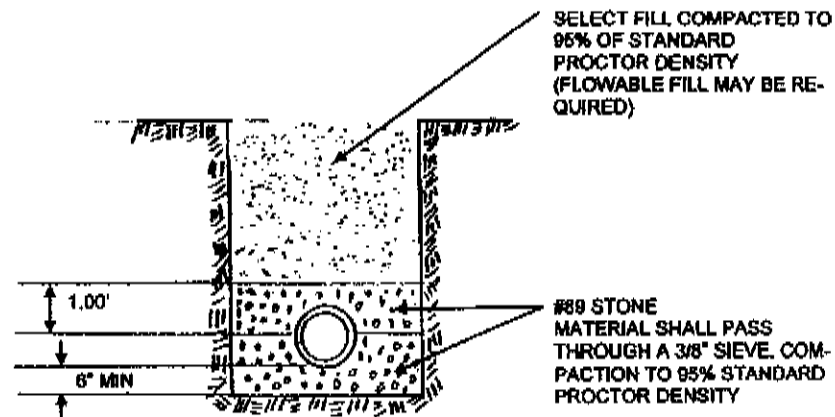
TOP VIEW

NOTES:

- A) THE WYE AND ADAPTORS INSTALLED SHALL BE OF THE SAME MATERIAL AS THE WASTEWATER MAINLINE.
- B) THE WYE AND ADAPTORS SHALL BE ASSEMBLED PRIOR TO INSTALLATION.
- C) CONNECTIONS TO THE EXISTING MAIN SHALL BE MADE USING A RUBBER SLEEVE COUPLING WITH STAINLESS STEEL BAND CLAMPS. THE CLAMPS SHALL BE TIGHTENED TO THE TORQUE RECOMMENDED BY THE MANUFACTURER.
- D) THE EMBEDMENT USED SHALL BE EQUAL TO THAT USED FOR THE MAINLINE SEWER.

**WASTEWATER LATERAL WYE
CONNECTION TO THE EXISTING MAINLINE**

The City of Key Colony Beach
January 2012



TRENCH WIDTH FOR 3" THRU 12" PIPE SHALL NOT EXCEED 30". MINIMUM TRENCH SHALL BE 18"

TRENCH EXCAVATION EMBEDMENT AND BACKFILL

The City of Key Colony Beach
January 2012

CERTIFICATE OF COMPLIANCE - TRENCH SAFETY ACT

PART 1. GENERAL

1.01 THIS SECTION supports/is supported by the requirements of all other Contract Documents.

1.02 SUMMARY

- A. Provide properly executed "Trench Safety Act (2 copies)" statement in the same envelope as the "Form of Proposal for Furnishing Labor and Materials (2 copies) - Form 1 03, 2000", instructions as follows:
1. For all excavations that exceed five feet in depth from the existing surface elevation, the Proposer must assure that all provisions of the Florida State Bill CS/SS 2826, the 1 990 "Trench Safety Act" shall be met.
 2. The bidder must identify the method or methods of compliance with the "Trench Safety Act"
 3. The bidder must identify the cost to comply with these standards; either on a cost per linear foot of trench excavation and/or a cost per square foot of shoring used.
 4. No separate payment will be made for these items, but they must be identified in the/this Proposal/Certificate of Compliance - Trench Safety Act.
 5. Proposer shall take care to include this document, completely filled out, with the "Form of Proposal" as indicated.

1.03 PROPOSER'S STATEMENT

- A. The current trench safety standards in effect are Occupational Safety and Health Administration (OSHA) Excavating Safety Standard 29 C. F. R. Part 1 926.050 Subpart P.

WE WILL USE:

☐ SLOPING - ☐ SHORING - ☐ TRENCH BOX - ☐ OTHER
(Specify Which) TO COMPLY WITH THE 1990 "TRENCH SAFETY ACT".

- B. The cost compliance with this trench safety act is included as part of the lump sum or unit price proposals contained in the PROPOSAL package.

1. The cost complying with this requirement is:
- a. Cost per lin. ft. of trench excavation \$ _____
 - b. Cost per sq. ft. of shoring used -- \$ _____

PROPOSER _____

Date _____