

## **330516N01- UTILITY STRUCTURES - Notes on Underground Plastic Pipe**

1. The use of plastic pipe will require written approval from the Capital Projects Management Division Project Manager.
2. Tracer wire - #14 (Min.) type TW insulation copper wire run close to the pipe. Do not spiral the wire around the pipe. Tracer is to be standard color for the utility. A metallic lined warning tape may be substituted for the plain plastic warning tape and the tracer wire (manufactured by Seton Identification Products or equal).
3. The anticipated fluid temperature must not exceed the maximum allowable operating temperature of the pipe nor can the anticipated fluid be detrimental to the pipe per the manufacturer's recommendation. Also expansion and contraction of the pipe must be considered in design and installation.
4. Plastic pipes under roadways, railways, pavement, etc., must be placed in a casing.
5. The excavated trench width is to be about 12 inches larger than the pipe diameter. If this width is exceeded, care must be taken to compact the earth to a point at least 2.5 pipe diameters from the pipe or trench wall whichever is less.
6. The bedding is to be grillage as approved by the plumbing code.
7. Install thrust blocks as needed.
8. The trench bottom should be properly prepared undisturbed earth. Provide foundation and bedding when the trench bottom conditions are unsuitable.
9. Place well compacted haunching material around the pipe up the center line. Place and compact the initial backfill. This material is to be an approved grillage.
10. For sewers on slopes greater than 20%, use concrete anchors cast immediately down hill of the bells to prevent movement.
11. No plastic pipe is to be underground, under any building.
12. Commence laying the pipe at the lowest elevation and terminate only at manholes, service branches or clean-outs.
13. Do not place plastic pipe within 10 Ft. of any steam or condensate line. If the plastic line must cross a steam or condensate line, obtain written approval from UK Capital Projects Management Division. Additional insulation and/or venting will be required.
14. Warning tape is to be standard color and marking for the utility.
15. Ten (10) ft./sec is the maximum flow velocity.

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**Applies to: All Projects  
University of Kentucky**

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